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15 & 16 VICTORIÆ, Cap. 83. Sec. XXXII.

CHRONOLOGICAL INDEX

OF

PATENTS APPLIED FOR AND PATENTS GRANTED,

For the Year 1856.

Printed and Published by Order of the Honourable the Commissioners of Patents,

UNDER THE

ACT of 15 & 16 VICTORIÆ, Cap. 83. Sec. XXXII.

BY BENNET WOODCROFT,

SUPERINTENDENT OF SPECIFICATIONS, INDEXES, &C.

LONDON:

PRINTED BY GEORGE EDWARD EYRE AND WILLIAM SPOTTISWOODE,

PRINTERS TO THE QUEEN'S MOST EXCELLENT MAJESTY.

PUBLISHED AT THE GREAT SEAL PATENT OFFICE,

SOUTHAMPTON BUILDINGS, HOLBORN.

1857.

CHRONOLOGICAL INDEX

OF

PATENTS APPLIED FOR AND PATENTS GRANTED.

TRUELOVE. 1st January 1856.	1. HENRY TRUELOVE, of Liverpool, in the County of Lancaster, Teacher, for an invention for—" Improvements in gloves." *Letters Patent sealed.*
SWIFT. 1st January 1856.	2. FERDINAND SWIFT, of Brompton Row, Brompton, in the County of Middlesex, Gentleman, for an invention for—" Improvements in carriage wheels and axles, and in vehicles for common roads." *Letters Patent sealed.*
CALVERT. 1st January 1856.	3. JOHN CALVERT, of the Strand, in the County of Middlesex, Mining Geologist, for an invention for—" Improvements in extracting metals from their ores." *Provisional protection only.*
NEWTON. 1st January 1856.	4. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—" A novel system of propulsion applicable to land and water."—*A communication from François Garnier, Merchant, of Clermont Ferrand, in the Empire of France.* *Provisional protection only.*
JOHNSON. 1st January 1856.	5. WILLIAM BECKETT JOHNSON, Manager for Messrs. R. Ormerod and Son, Engineers, Manchester, in the County of Lancaster, for an invention for—" Improvements in steam boilers and engines." *Letters Patent sealed.*
COCHRANE. 1st January 1856.	6. ALEXANDER COCHRANE, of No. 11, Eaton Terrace, Saint John's Wood, in the County of Middlesex, for an invention for—" Improvements in collecting and distributing water and alluvial deposits contained in sewage and other water." *Provisional protection only.*
THURRELL. MULLER. CHIDLEY. 1st January 1856.	7. JOHN THURRELL, of 32, Castle Street East, Oxford Street, ELIZABETH MARY MULLER, of 58, Greek Street, Soho, in the County of Middlesex, and JOHN ROBERT CHIDLEY, of Gresham Street, in the City of London, Gentleman, for an invention for—" Improvements in transmitting fac-simile copies of writings and drawings, by means of electric currents." *Provisional protection only.*
SHANKS. 2nd January 1856.	8. ANDREW SHANKS, Engineer, 6, Robert Street, Adelphi, Westminster, for an invention for—" Certain improvements in machinery for cutting screws." *Letters Patent sealed.*
BULLOUGH. 2nd January 1856.	9. WILLIAM BULLOUGH, of Blackburn, in the County of Lancaster, Mechanic, for an invention for—" Improvements in machinery or apparatus for sizing yarns." *Letters Patent sealed.*
TILGHMAN. 2nd January 1856.	10. RICHARD ALBERT TILGHMAN, of Philadelphia, United States of America, for an invention for—" Improvements in the manufacture of iron."—*Letters Patent sealed.*
HAMILTON. 2nd January 1856.	11. GEORGE HAMILTON, of Great Tower Street, in the City of London, Gentleman, for an invention for—" Improvements in apparatus for weighing." *Letters Patent sealed.*
SELLERS. TALBOTT. 2nd January 1856.	12. HENRY LEWIS SELLERS, of Cincinnati, in the State of Ohio, in the United States of America, Doctor of Medicine, and JOHN LITTLER TALBOTT, of the same place, Gentleman, for an invention for—" Improved apparatus for measuring and weighing grain, seeds, and other substances."—*A communication.* *Letters Patent sealed.*
GILL. 3rd January 1856.	13. RICHARD GILL, of Grove Terrace, Pomeroy Street, New Cross, in the County of Kent, for an invention for—" Improvements in the arrangement and construction of the fire flues and passages of steam-boilers, for facilitating and improving the combustion of smoke." *Provisional protection only.*

HAINES. 3rd January 1856.

14. FREDERICK HAINES, Patent Agent, of 22, Lime Street, City, in the County of Middlesex, London, for—"An invention for the deadening of the sound and the prevention of vibration and concussion in connection with machinery, gun and mortar boats and general ordnance, and other purposes." *Letters Patent sealed.*

TOYE. 3rd January 1856.

15. CHARLES TOYE, of Gloucester Street, Queen Square, Bloomsbury, in the County of Middlesex, Mechanic, for an invention for—"Improvements in weaving terry fabrics." *Letters Patent sealed.*

WILLIAMS. 3rd January 1856.

16. GEORGE WILLIAMS, of No. 16, Cannon Street East, in the County of Middlesex, Plumber, for an invention for—"Improvements in the construction of waterclosets for ships." *Letters Patent sealed.*

SCHLESINGER. 3rd January 1856.

17. JOSEPH WILLIAM SCHLESINGER, of Northfleet, in the County of Kent, Mechanical Engineer, for an invention for—"Improvements in the mode of using emery, glass, and sand or other substances on linen or other material, and in the machinery applicable to the manufacture thereof." *Provisional protection only.*

DISTIN. 3rd January 1856.

18. WILLIAM ALFRED DISTIN, of No. 31, Cranbourn Street, Leicester Square, in the County of Middlesex, for an invention for—"Improvements in pipes for smoking." *Letters Patent sealed.*

LYALL. 3rd January 1856.

19. JAMES BAGSTER LYALL, of Castle Frome, in the County of Hereford, Gentleman, for an invention for—"Certain improvements in carriages."—*Letters Patent sealed.*

BRAMBACH. 3rd January 1856.

20. HERMANN BRAMBACH, in the City of Cologne, in the Kingdom of Prussia, for an invention for—"Converting dry pitch and other resinous substances, also coal tar and other tars, into neutral essential oils." *Provisional protection only.*

NEALE. 3rd January 1856.

21. EDWARD VANSITTART NEALE, of 4, Russell Place, Fitzroy Square, in the County of Middlesex, Esquire, for an invention for—"Improvements in labels." *Provisional protection only.*

JOHNSON. 3rd January 1856.

22. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in apparatus or means for facilitating the performance of church and other music on organs, harmoniums, pianos, and other similar keyed musical instruments." —*A communication from François Guichené.* *Letters Patent sealed.*

STEWART. 3rd January 1856.

23. ALAN STEWART, of 85, Regent Street, in the County of Middlesex, and of 18, Rue de la Paix, Paris, France, Consulting Mechanical Surgeon, for an invention for—"Improvements in measuring the human figure and in fitting garments thereto." *Provisional protection only.*

JOHNSON. 3rd January 1856.

24. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in breech-loading fire-arms." — *A communication from Charles Albert Friedrich, of Stettin, Switzerland.* *Provisional protection only.*

MATHER. MILLWARD. 3rd January 1856.

25. COLIN MATHER, of Salford Iron Works, Manchester, in the County of Lancaster, Machinist, and CHARLES MILLWARD, of Salford, in the County of Lancaster, Engine Manager, for an invention for—"An improvement in steam and vacuum gauges." *Letters Patent sealed.*

LACKERSTEEN. 3rd January 1856.

26. JAMES FREDERICK LACKERSTEEN, of 7, Young Street, Kensington Square, for an invention for—"Improvements in the prevention of collisions on railways." *Letters Patent sealed.*

FOWLER. 3rd January 1856.

27. JOHN FOWLER, Junior, of Bristol, for an invention for—"Improvements in machinery for giving motion to ploughs and other implements used for cultivating land." *Letters Patent sealed.*

MARSDEN. 3rd January 1856.

28. CHARLES MARSDEN, of Kingsland Road, in the County of Middlesex, Ventilating Engineer, for an invention for—"Improvements in the ventilation of sewers, tunnels, mines, and other confined places." *Letters Patent sealed.*

BARLOW. 4th January 1856.

29. HENRY BERNOULLI BARLOW, of the City of Manchester, Patent Agent, for an invention for—"Certain improvements in machinery for carding cotton and other fibrous substances."—*A communication from Camille De Bast, of Ghent, in the Kingdom of Belgium.* *Provisional protection only.*

BACH.
4th January 1856.

30. HENRY BACH, of Sheffield, in the County of York, Hosier, for an invention for—"Improvements in the application of glass to decorative purposes."
Letters Patent sealed.

HART.
4th January 1856.

31. CHARLES HART, of the Vale of White Horse Iron Works, Wantage, in the County of Berkshire, Agricultural Engineer, for an invention for—"Improvements in portable steam-engines; and in apparatus connected therewith for tilling and cultivating land." *Letters Patent sealed; no specification filed.*

SIMMONS.
4th January 1856.

32. WILLIAM SIMMONS, of Oldham, in the County of Lancaster, Hat Manufacturer, for an invention for—"An improved hat body." *Letters Patent sealed.*

GREY.
4th January 1856.

33. ROBERT GREY, of No. 21, Ridley Place, Newcastle-on-Tyne, Builder and Brick-maker, for an invention for—"Improvements in machinery or apparatus for moulding bricks, tiles, and other similar articles." *Letters Patent sealed.*

HUDSON.
4th January 1856.

34. THOMAS HUDSON, of South Shields, in the County of Durham, Gentleman, for an invention for—"An improvement in furnaces." *Provisional protection only.*

KEY.
4th January 1856.

35. THOMAS KEY, of Bethnal Green, for an invention for—"An improved knife-cleaning machine." *Provisional protection only.*

BENTALL.
4th January 1856.

36. EDWARD HAMMOND BENTALL, of Heybridge, in the County of Essex, Iron Founder, for an invention for—"Improved machinery for pulping turnips and other vegetable matters." *Letters Patent sealed.*

WRIGHT.
4th January 1856.

37. JOSEPH WRIGHT, of Burton-upon-Trent, in the County of Stafford, Engineer and Iron Founder, for an invention for—"Improvements in furnaces and fire bars."
Letters Patent sealed.

BOUSFIELD.
4th January 1856.

38. GEORGE TOMLINSON BOUSFIELD, of Sussex Place, Loughborough Road, Brixton, in the County of Surrey, for an invention for—"Improvements in the manufacture of jacquard piled or terry fabrics when parti-coloured yarns are used."—*A communication.* *Letters Patent sealed.*

BETTELEY.
4th January 1856.

39. JOSEPH BETTELEY, of Liverpool, in the County of Lancaster, Chain Cable Manufacturer, for an invention for—"An improvement in the rolling of iron for the making of ships' knees." *Letters Patent sealed.*

GERISH.
4th January 1856.

40. FRANCIS WILLIAM GERISH, of East Road, City Road, for an invention for—"An improvement in the manufacture of cast hinges." *Letters Patent sealed.*

NORTH.
PEACOCK.
4th January 1856.

41. ROBERT SAM NORTH, of Derby, in the County of Derby, Engineer, and RALPH PEACOCK, of New Holland, in the County of Lincoln, Engineer, for an invention for—"Improvements in metallic packings for pistons." *Letters Patent sealed.*

JOHNSTON.
4th January 1856.

42. WILLIAM OLIVER JOHNSTON, of Broomhill Colliery, Acklington, Northumberland, Engineer, for an invention for—"An improvement in apparatus used for giving notice when the water in a steam-boiler is too low." *Letters Patent sealed.*

CLARKE.
4th January 1856.

43. WILLIAM SAINT THOMAS CLARKE, of 29, Charing Cross, in the County of Middlesex, Gentleman, for an invention for—"Improvements in ventilation."
Provisional protection only.

BESSEMER.
4th January 1856.

44. HENRY BESSEMER, of Queen Street Place, New Cannon Street, in the City of London, for an invention for—"Improvements in the manufacture of iron and steel."
Letters Patent sealed.

KAMMERER.
BREWER.
5th January 1856.

45. RAYMOND KAMMERER, of Ostend, and CHARLES BREWER, of Chelsea, in the County of Middlesex, for an invention for—"Improvements in electric clocks or time-keepers." *Provisional protection only.*

COXETER.
5th January 1856.

46. JAMES COXETER, of No. 23, Grafton Street East, in the Parish of Saint Pancras, in the County of Middlesex, Surgeons' Instrument Maker, for an invention for—"An improvement in an apparatus for generating steam for medical and other purposes."
Provisional protection only.

HINDLE.
5th January 1856.

47. HENRY HINDLE, of Cavendish Street, Ashton-under-Lyne, in the County of Lancaster, for an invention for—"Improvements in valves or apparatus for regulating the flow of steam and gas." *Provisional protection only.*

CORBETT.
5th January 1856.

48. JOSEPH CORBETT, of Brierley Hill, in the County of Stafford, Engineer, for an invention for—"A new or improved method of preserving the tuyeres of blast furnaces." *Letters Patent sealed.*

THÉRÈSE. 5th January 1856.

49. LOUIS AUGUSTE THÉRÈSE, of Paris, in the French Empire, Saddler, for an invention for—" Certain improvements in harness." *Provisional protection only.*

HANSON. WORMALD. 5th January 1856.

50. CONRAD ABBEN HANSON, and JOHN WORMALD, both of Belmont, Vauxhall, in the County of Surrey, for an invention for—" Improvements in signal and other lamps." *Letters Patent sealed.*

DELPERDANGE. 7th January 1856.

51. VICTOR DELPERDANGE, Engineer, of 125, Rue Verte Schaerbeck, Brussels, Belgium, for an invention for—" Improvements in metallic and elastic packing." *Provisional protection only.*

JARVIS. CLARE. 7th January 1856.

52. CHARLES JARVIS, of Birmingham, in the County of Warwick, Ironfounder, and THOMAS DEYKIN CLARE, of Birmingham aforesaid, Mineral Merchant, for an invention for—" A new or improved oven or kiln to be used in the manufacture of coke and pottery, and for heating and drying generally." *Letters Patent sealed.*

LISTER. TONGUE. 7th January 1856.

53. SAMUEL CUNLIFFE LISTER, and WILLIAM TONGUE, both of Bradford, in the County of York, for an invention for—" Improvements in machinery for combing wool, cotton, and other fibrous materials." *Letters Patent sealed.*

BARTER. 7th January 1856.

54. THOMAS BARTER, of Hart Street, in the County of Middlesex, Medical Rubber and Bathman, for an invention for—" An improved apparatus for administering vapour and douche baths." *Provisional protection only.*

BROOMAN. 7th January 1856.

55. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent Agent, for an invention for—" Improvements in machinery for boring and excavating."—*A communication.* *Letters Patent sealed.*

NEWTON. 7th January 1856.

56. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—" An improved mode of manufacturing rods, shafts, and tubes, of iron and steel."—*A communication.* *Letters Patent sealed.*

PARISET. 8th January 1856.

57. CLAUDE LOUIS PARISET, Chemist, of Paris, in the French Empire, for an invention for—" An improved paste for manufacturing paper, pasteboard, and other similar products." *Provisional protection only.*

BOWRA. 8th January 1856.

58. MATTHIAS EDWARD BOWRA, of 63, Basinghall Street, City of London, County of Middlesex, for an invention for—" Improvements in the nature and manufacture of waterproof garments and other goods." *Provisional protection only.*

PIETRONI. 8th January 1856.

59. CARLO PIETRONI, of London Wall, in the City of London, Merchant, for an invention for—" Improvements in printing on cloth and other fabrics."—*A communication from Guiseppe Bossi, of Vienna, in the Empire of Austria. Provisional protection only.*

LOCKE. 8th January 1856.

60. GEORGE BARING LOCKE, of Notting Hill, Kensington, in the County of Middlesex, Railway Clerk, for an invention for—" Improvements in signalling from trains whilst in motion." *Provisional protection only.*

TRUMAN. 8th January 1856.

61. EDWIN THOMAS TRUMAN, of Old Burlington Street, in the County of Middlesex, Dentist in Ordinary to Her Majesty's Household, for an invention for—" Improvements in artificial palates and teeth." *Letters Patent sealed.*

STUART. PRITCHARD. 8th January 1856.

62. HENRY STUART, of Liverpool, in the County of Lancaster, and THOMAS PRITCHARD, of Runcorn, in the County of Chester, Watchmakers, for an invention for—" Improvements in watches and chronometers, which improvements are also applicable to clocks and other time-pieces." *Letters Patent sealed.*

FONTAINEMOREAU. 8th January 1856.

63. PETER ARMAND LE COMTE DE FONTAINEMOREAU, of 4, South Street, Finsbury, London, and 39, Rue de l'Echiquier, Paris, in the Empire of France, for an invention for—" Certain improvements in jacquard machines."—*A communication from J. Marin and L. P. de Maligny, of Lyon.* *Letters Patent sealed.*

MIDDLETON. 8th January 1856.

64. SAMUEL MIDDLETON, of St. George's Row, Southwark, for an invention for —" An improvement in the leather covered rollers used in spinning-machinery." *Letters Patent sealed.*

PITMAN. 9th January 1856.

65. JOHN TALBOT PITMAN, of the American and European Patent Offices, 67, Gracechurch Street, London, for an invention for—" An improved mode of applying diastase and heat to the saccharification of starch."—*A communication from Frans Victor Oscar Hyckert, of Stockholm, Sweden.* *Provisional protection only.*

HALD.
9th January 1856.

63. GEORGE JOHN CHRISTIAN ERHARD HALD, of the City of Manchester, Merchant, for an invention for—"Improvements in the construction of stoves."—*A communication.* *Letters Patent sealed.*

GATTY.
9th January 1856.

67. FREDERICK ALBERT GATTY, of Accrington, in the County of Lancaster, Manufacturing Chemist, for an invention for—"Improvements in the manufacture of lake colours." *Letters Patent sealed.*

JEANNE.
MARTIN.
MARTIN.
9th January 1856.

68. VICTOR JEANNE, ADOLPHE MARTIN, and MICHEL EDMOND MARTIN, Engineers, of Paris, in the Empire of France, for an invention for—"An improved grease-box for axles, journals, and other rotary parts of machinery." *Provisional protection only.*

BARRIE.
9th January 1856.

69. WILLIAM BARRIE, of Maida Hill, London, in the County of Middlesex, Commander R.N., for an invention for—"An improved reflective leveller."—*A communication from Adolphe Morlot, of Montreux.* *Letters Patent sealed.*

HALLEN.
KINGSTON.
9th January 1856.

70. EDWARD HALLEN, of Cornwall Road, Lambeth, in the County of Surrey, Civil Engineer, and WILLIAM HOLLAND KINGSTON, of Bandon, in the County of Cork, Ireland, A. B. F. C., Dublin, for an invention for—"Improvements in communicating between the guards and engine drivers, and between the passengers, guards, and engine drivers, of railway trains." *Letters Patent sealed.*

ASHWORTH.
9th January 1856.

71. JOHN ASHWORTH, Junior, of Turton, in the County of Lancaster, Cotton Spinner, for an invention for—"Certain improvements in lap machines or apparatus used in the preparation of cotton and other fibrous substances for spinning." *Letters Patent sealed.*

HEEGAARD.
9th January 1856.

72. ANKER HEEGAARD, of Copenhagen, in the Kingdom of Denmark, and 46, Regent Street, Middlesex, for an invention for—"Improvements in making channels or flues." *Provisional protection only.*

ALEXANDRE.
9th January 1856.

73. LAMBERT ALEXANDRE, of the City and State of New York, United States of America, for an invention for—"Improvements in propellers for vessels." *Provisional protection only.*

BARKER.
9th January 1856.

74. CHARLES MATHEW BARKER, of 25, Kennington Lane, in the County of Surrey, for an invention for—"An improvement in the pistons of steam-engines." *Provisional protection only.*

WATSON.
9th January 1856.

75. WILLIAM WATSON, of Leeds, in the County of York, Manufacturing Chemist, for an invention for—"Improvements in the arrangement of furnaces." *Provisional protection only.*

ADCOCK.
9th January 1856.

76. HENRY ADCOCK, of the City Road, for an invention for—"An improvement in casting iron and other metal." *Provisional protection only.*

BILLING.
HARWOOD.
10th January 1856.

77. MARTIN BILLING, of Birmingham, in the County of Warwick, Stationer, and FREDERICK AUGUSTUS HARWOOD, of Birmingham aforesaid, Machinist, for an invention for—"New or improved machinery for the manufacture of paper bags." *Letters Patent sealed.*

DARLINGTON.
10th January 1856.

78. JOHN DARLINGTON, of 6, Albert Street, in the Parish of Newington, in the County of Surrey, for an invention for—"Improvements in the manufacture or production of zinc or spelter." *Provisional protection only.*

ERSKINE.
10th January 1856.

79. JOHN ERSKINE, of Glasgow, in the County of Lanark, North Britain, Merchant, for an invention for—"The application of a new material or mixture for dressing or sizing textile fabrics or materials." *Letters Patent sealed.*

HERBERT.
10th January 1856.

80. JANE ANN HERBERT, of No. 5, Waterden Place, Guildford, in the County of Surrey, Widow, for an invention for—"An improved method for extracting the dirt or the gum or the colouring matter or the principle from various vegetable or animal substances or materials."—*A communication.* *Letters Patent sealed.*

FERNIHOUGH.
11th January 1856.

81. JAMES FERNIHOUGH, of Dukinfield, in the County of Chester, Boiler Maker, Iron Founder, &c., for an invention for—"Improvements in steam-boilers and apparatus for consuming smoke." *Provisional protection only.*

JOHNSON.
11th January 1856.

82. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in cards for jacquard mechanism."—*A communication from Gaspard Mesmer, of St. Louis, in the Empire of France, Manufacturer.* *Provisional protection only.*

JOHNSON. 11th January 1856.

83. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in railway breaks."—*A communication from Jean Baptiste Marie Albert Cochot, of Paris, in the Empire of France.* *Provisional protection only.*

CLARKSON. 11th January 1856.

84. THOMAS CHARLES CLARKSON, of 216, High Street, Wapping, in the County of Middlesex, for an invention for—"A combination of certain materials for forming and making improvements in ship and other pumps' tubes, and which is also applicable for ship, carriage, and other building purposes, and parts thereof."—*Letters Patent sealed.*

NEWTON. 11th January 1856.

85. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"A new and improved method of curing meats, preserving provisions, and ventilating and cooling buildings, cars, and vessels."—*A communication.* *Letters Patent sealed.*

POLE. KITSON. 11th January 1856.

86. WILLIAM POLE, of Storey's Gate, in the City of Westminster, Engineer, and FREDERICK WILLIAM KITSON, of Leeds, in the County of York, Engineer, for an invention for—"Improvements in railway wheels." *Letters Patent sealed.*

SMITH. 11th January 1856.

87. WILLIAM SMITH, of Little Woolston, in the County of Bucks, Farmer, for an invention for—"Improvements in ploughs and other cultivating implements." *Letters Patent sealed.*

ROUTLEDGE. 11th January 1856.

88. WILLIAM ROUTLEDGE, of Salford, in the County Palatine of Lancaster, Engineer, for an invention for—"Improvements in cocks or valves for regulating the flow and pressure of steam, water, or other fluids." *Provisional protection only.*

BAIN. 12th January 1856.

89. ALEXANDER BAIN, of Westbourne Park Road, Paddington, in the County of Middlesex, Mechanical Engineer, for an invention for—"Improvements in the construction of inkstands." *Letters Patent sealed.*

SAUTELET. 12th January 1856.

90. EMILE CONSTANTIN FRITZ SAUTELET, Chemist, of Paris, in the French Empire, for an invention for—"An improved process of tanning."—*Letters Patent sealed.*

OUDRY. 12th January 1856.

91. CHARLES FRANÇOIS LEOPOLD OUDRY, of 39, Rue de l'Echiquier, Paris, in the Empire of France, and of 4, South Street, Finsbury, London, Gentleman, for an invention for—"Certain improvements in the preservation of metals and other solid substances." *Letters Patent sealed.*

EMANUEL. 12th January 1856.

92. HARRY EMANUEL, of Hanover Square, in the County of Middlesex, Silversmith, for an invention for—"Improvements in the manufacture of spoons, forks, and other similar articles in metal."—*A communication.* *Letters Patent sealed.*

OWEN. 12th January 1856.

93. WILLIAM OWEN, of Rotherham, in the County of York, Iron Master, for an invention for—"Improvements in the manufacture of railway wheels and tires." *Letters Patent sealed.*

DAY. 12th January 1856.

94. RICHARD KEMSLEY DAY, of Plaistow, in the County of Essex, for an invention for—"Improvements in the manufacture of fuel." *Provisional protection only.*

FREELAND. 12th January 1856.

95. ALEXANDER BANKIER FREELAND, of Manchester, in the County of Lancaster, Merchant, for an invention for—"Improvements in the preparation of flour for the purposes of its better preservation and carriage, and in the machinery or apparatus employed therein." *Provisional protection only.*

TOLHAUSEN. 14th January 1856.

96. ALEXANDRE TOLHAUSEN, of No. 7, Duke Street, Adelphi, London, in the County of Middlesex, Sworn Interpreter at the Imperial Court of Paris, for an invention for—"Certain improvements in balanced side valves for steam-engines."—*A communication from E. D. Leavitt, Junior, United States of America.* *Letters Patent sealed.*

HOMERSHAM. 14th January 1856.

97. WILLIAM COLLETT HOMERSHAM, of Caroline Villas, Kentish Town, in the County of Middlesex, Engineer, for an invention for—"Improvements in machinery for the preparation of hemp, flax, and other fibrous materials."—*Letters Patent sealed.*

POLLAK. 14th January 1856.

98. ADOLF POLLAK, of the firm of A. M. Pollak, of Vienna, in the Empire of Austria, for an invention for—"A new fusee or cigar light."—*Provisional protection only.*

POLLAK. 14th January 1856.

99. ADOLF POLLAK, of the firm of A. M. Pollak, of Vienna, in the Empire of Austria, for an invention for—"Treating waste oily matters to obtain a product applicable to the manufacture of soap, and other useful purposes in the arts."
Letters Patent sealed.

BENTALL. 14th January 1856.

100. EDWARD HAMMOND BENTALL, of Heybridge, in the County of Essex, Iron Founder, for an invention for—"An improvement in the construction of machinery for cutting and pulping turnips and other vegetable matters."
Letters Patent sealed; no specification filed.

DODGE. 14th January 1856.

101. NATHANIEL SHATTSWELL DODGE, of the firm of Dodge, Bacon, & Co., of 44, St. Paul's Churchyard, in the City of London, Merchants and Manufacturers, for an invention for—"Improvements in the preparation or manufacture of leather cloth."
Letters Patent sealed.

CHAMBERS. CHAMPION. 14th January 1856.

102. AUSTEN CHAMBERS, of Canterbury, and WILLIAM HARRISON CHAMPION, of Lynsted, Kent, for an invention for—"An improved mode of working railway breaks." *Letters Patent sealed.*

ULRICH. 14th January 1856.

103. JOHN GOTTLIEB ULRICH, of 63, Mark Lane, in the City of London, for an invention for—"Improvements in chronometers and other time-keepers."
Letters Patent sealed.

MALTESTE. 14th January 1856.

104. ANNE EMILIE MALTESTE, of Paris (France), Milliner, for an invention for—"Improvements in shirts." *Letters Patent sealed.*

BRADE. 14th January 1856.

105. ABRAHAM GERARD BRADE, of Paris (France), Civil Engineer, for an invention for—"Improvements in recovering the wool from fabrics in which the same exists together with silk or vegetable textile fibres." *Provisional protection only.*

OWEN. 14th January 1856.

106. WILLIAM OWEN, of Rotherham, in the County of York, Iron Master, for an invention for—"Improvements in stoves and fire-places." *Letters Patent sealed.*

NICOULLAND. 15th January 1856.

107. PIERRE THÉOPHILE AUGUSTE NICOULLAND, of 39, Rue de l'Echiquier, Paris, in the Empire of France, and of 4, South Street, Finsbury, London, Gentleman, for an invention for—"Improvements in steam-boiler furnaces."—*A communication from Le Docteur Bordone, of Vincennes.* *Letters Patent sealed.*

HOSTAGE. HOSTAGE. TATLOCK. 15th January 1856.

108. JOSEPH HOSTAGE, THOMAS IVES BRAYNE HOSTAGE, and JOHN TATLOCK, of the City of Chester, in the County of Chester, for an invention for—"Improvements in railway chairs." *Letters Patent sealed.*

SHEPPARD. 15th January 1856.

109. SAMUEL SHEPPARD, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"A new or improved tap or stop cock."
Letters Patent sealed.

BAKEWELL. 15th January 1856.

110. THOMAS HILL BAKEWELL, of Welford Road, Leicester, Clerk, for an invention for—"Improvements in ventilating, warming, and cooling rooms and other places." *Letters Patent sealed.*

DUNN. 16th January 1856.

111. THOMAS DUNN, of the Windsor Bridge Iron Works, Pendleton, in the County of Lancaster, Engineer, for an invention for—"Improvements in boilers and apparatus for heating water and generating steam." *Letters Patent sealed.*

M'EVOY. 16th January 1856.

112. HENRY M'EVOY, of Hall Street Works, Birmingham, in the County of Warwick, for an invention for—"Improvements in locks, latches, and staples."
Letters Patent sealed.

LAW. 16th January 1856.

113. HENRY LAW, Civil Engineer, of No. 15, Essex Street, Strand, in the County of Middlesex, for an invention for—"Improvements in heaving up slips for the repair or construction of ships or vessels, and for a continuous action purchase for the same, which is also applicable to other purposes." *Letters Patent sealed.*

PRANGLEY. 16th January 1856.

114. WILLIAM PRANGLEY, of Salisbury, in the County of Wilts, Professor of Music, for an invention for—"A novel instrument for exercising the third finger and thereby facilitating the playing upon musical instruments." *Letters Patent sealed.*

SCULLY. HEYWOOD. 16th January 1856.

115. VINCENT SCULLY, Esquire, and BENNETT JOHNS HEYWOOD, Gentleman, both of the City of Dublin, for an invention for—"Improvements in the construction of inkstands;—applicable in part to other vessels for the reception of fluids."
Letters Patent sealed.

ABRAHAM. 16th January 1856.

116. JOHN ABRAHAM, of Birmingham, in the County of Warwick, Machinist, for an invention for—"New or improved machinery for the manufacture of percussion caps, and for cutting out and raising articles in metal generally." *Letters Patent sealed.*

HAMILTON. 16th January 1856.

117. JOHN HAMILTON, junior, of Liverpool, for an invention for—"Improvements in the posts or uprights employed in constructing electric telegraphs." *Letters Patent sealed.*

THOMPSON. 16th January 1856.

118. JOHNSON THOMPSON, of Sunderland, Builder, for an invention for—"Improvements in ships' keelsons." *Letters Patent sealed.*

HAMILTON. 16th January 1856.

119. JOHN HAMILTON, junior, of Liverpool, for an invention for—"Improvements in constructing the permanent ways of railways." *Letters Patent sealed.*

FOWLER. 16th January 1856.

120. JOHN FOWLER, junior, of Bristol, for an invention for—"Improvements in machinery for ploughing land." *Letters Patent sealed.*

DRING. 16th January 1856.

121. DAVID DRING, of 149, Great Dover Road, in the County of Surrey, for an invention for—"Improvements in machinery for cutting wood pegs."—*A communication.* *Letters Patent sealed.*

WORTHINGTON. 16th January 1856.

122. HENRY R. WORTHINGTON, of the City of New York, United States of America, for an invention for—"A machine for measuring the flow of liquids, called a fluid metre."—*Complete specification.* *Letters Patent sealed.*

FONTAINEMOREAU. 17th January 1856.

123. PETER ARMAND LE COMTE DE FONTAINEMOREAU, of 4, South Street, Finsbury, London, and 39, Rue de l'Echiquier, Paris, in the Empire of France, for an invention for—"An improved apparatus for the prevention of accidents or collisions on railways."—*A communication.* *Letters Patent sealed.*

TOLHAUSEN. 17th January 1856.

124. ALEXANDRE TOLHAUSEN, of No. 7, Duke Street, Adelphi, London, County of Middlesex, Sworn Interpreter at the Imperial Court of Paris, for an invention for—"An improved gas meter."—*A communication.* *Provisional protection only.*

RECHTEN. 17th January 1856.

125. PHILIPP RECHTEN, of Bremen, for an invention for—"The taking of whales and other cetaceous fish by means of a harpoon constructed on entire new principles." *Letters Patent sealed.*

CARRINGTON. 17th January 1856.

126. SAMUEL RATCLIFFE CARRINGTON, of Stockport, in the County of Chester, Hat Manufacturer, for an invention for—"Certain improvements in the manufacture of hats, and in machinery or apparatus connected therewith."—*Provisional protection only.*

JACKSON. 17th January 1856.

127. JAMES JACKSON, of Manchester, in the County of Lancaster, Blind Manufacturer, for an invention for—"An improved apparatus for retaining and releasing cords of venetian blinds, or cords, bands, or chains employed for other purposes." *Letters Patent sealed; no specification filed.*

PHILCOX. 17th January 1856.

128. OLIVER PHILCOX, of 30, Willes Road, Kentish Town, in the Parish of St. Pancras, in the County of Middlesex, for an invention for—"Increasing the effect and the facility in fingering the piano-forte, organ, or other musical instrument having a keyboard." *Provisional protection only.*

CHAPMAN. 17th January 1856.

129. WILLIAM CHAPMAN, of Sunderland, for an invention for—"An improvement in propelling vessels." *Letters Patent sealed.*

COMSTOCK. 17th January 1856.

130. JOSEPH JESSE COMSTOCK, of New York, in the United States, but now at Liverpool, County of Lancaster, for an invention for—"Improvements in generating steam."—*A communication.* *Letters Patent sealed.*

PLATT. WHITAKER. 17th January 1856.

131. JOHN PLATT, of Oldham, in the County of Lancaster, Mechanical Engineer, and JOHN WHITAKER, of the same place, Doubler, for an invention for—"Improvements in machinery or apparatus for doubling or twining yarns or threads, parts of which improvements are also applicable to mules for spinning." *Letters Patent sealed.*

SQUIRES. 17th January 1856.

132. WILLIAM WESTBROOKE SQUIRES, of Liverpool, in the County of Lancaster, Doctor of Medicine, for an invention for—"Improvements in preventing the bursting of pipes and tubes for conveying liquids." *Letters Patent sealed.*

TREMESCHINI. 18th January 1856.

133. GUISEPPE ANTONIO TREMESCHINI, of Vicence (Lombardo-Venetian), Mechanician, for an invention for—"Improvements in electro-telegraphic communications." *Letters Patent sealed.*

MOSELEY. 18th January 1856.

134. JOSEPH MOSELEY, of Well Walk, Hampstead, in the County of Middlesex, Esquire, for—"An invention for the transport of all goods, merchandize, and valuable commodities whatsoever." *Provisional protection only.*

DE BERGUE. 18th January 1856.

135. MIGUEL DE BERGUE, of Barcelona, in the Kingdom of Spain, Engineer, for an invention for—"Improvements in the permanent way of railways." *Letters Patent sealed.*

SCHLOSS. 18th January 1856.

136. JOSEPH SCHLOSS, of Wellington Chambers, Cannon Street West, London, County of Middlesex, Merchant, for an invention for—"A piston bolt or certain improvements in fastening travelling bags, porte-monnaies, cigar-cases, writing-desks, drawers, doors, and similar objects where locks, bolts, or clasps are employed." *Letters Patent sealed.*

MARSHALL. 18th January 1856.

137. WILLIAM MARSHALL, of Smethwick, in the County of Stafford, Manager of Iron Works, for an invention for—"An improvement or improvements in rolling iron for the manufacture of gun barrels and tubes, and for other like purposes." *Provisional protection only.*

RULE. 18th January 1856.

138. HENRY GRIFFITH RULE, of Manchester, in the County of Lancaster, Gentleman, for an invention for—"Certain improvements in machinery or apparatus for measuring water or other fluids." *Provisional protection only.*

SHAW. 18th January 1856.

139. DAVID SHAW, of Gee Cross, in the County of Chester, Manufacturer, for an invention for—"Certain improvements in looms for weaving." *Provisional protection only.*

MYERS. 18th January 1856.

140. EDWARD MYERS, of Rotherham, in the County of York, Engineer, for an invention for—"Improvements in buffers and other springs for railway and other carriages." *Provisional protection only.*

DODGE. 18th January 1856.

141. NATHANIEL SHATTSWELL DODGE, of St. Paul's Churchyard, in the City of London, of the firm of Dodge, Bacon, and Company, Merchants and Manufacturers, for an invention for—"Improvements in treating vulcanized india-rubber or gutta-percha."—*A communication.* *Letters Patent sealed.*

MANCEAUX. 18th January 1856.

142. FRANÇOIS JULES MANCEAUX, of Paris, in the Empire of France, Gun Manufacturer, for an invention for—"Improvements in fire-arms."—*Letters Patent sealed.*

HOLDEN. 18th January 1856.

143. JONATHAN HOLDEN, of Halifax, in the County of York, Printer, for an invention for—"Improvements in machinery for cutting or carving and figuring wood." *Provisional protection only.*

HARRISON. 18th January 1856.

144. CHARLES WEIGHTMAN HARRISON, of Woolwich, in the County of Kent, Civil Engineer, for an invention for—"Improvements in transmitting communications and in the apparatus employed therein." *Provisional protection only.*

MARZOLO. 18th January 1856.

145. JOSEPH MARZOLO, of Padua, and at present residing in Paris, in the Empire of France, Rue des Petites Ecuries, No. 57, Organ Builder, for an invention for—"A reproductive organ, printing with known notes any musical fancies, and equally applicable to pianofortes, melodiums, harmoniums, accordions, and generally to all keyed musical instruments." *Provisional protection only.*

BUCKLEY. 18th January 1856.

146. JAMES BUCKLEY, of Oldham, in the County of Lancaster, Provision Dealer, for an invention for—"Improvements in looms for weaving."—*Provisional protection only.*

HEAVEN. BOOTH. 19th January 1856.

147. ALFRED HEAVEN, and WILLIAM BOOTH, both of the City of Manchester, Embroiderers by Machinery, for an invention for—"Improvements in machinery for embroidering fabrics." *Provisional protection only.*

DAWSON. 19th January 1856.

148. ALFRED DAWSON, of 14, Barnes Place, Mile End Road, in the Parish of Saint Dunstan's, Stepney, in the County of Middlesex, Engineer, for an invention for—"An apparatus for converting small coals or coal dust, or small coals and coke or coal dust, and coke with the admixture of water or other materials, into solid blocks of fuel;—parts of which apparatus can be used and are suited for other purposes." *Letters Patent sealed.*

PICKERING. 19th January 1856.

149. EDWARD PICKERING, of Chatham Place, Blackfriars, in the County of Middlesex, Railway Contractor, for an invention for—"Improvements in the permanent way of railways." *Letters Patent sealed.*

ARMOUR.
19th January 1856.

150. JOHN ARMOUR, of Kirkton Bleach Works, in the County of Renfrew, North Britain, Bleacher, for an invention for—"Improvements in bleaching, washing, or cleansing textile fabrics and materials." *Provisional protection only.*

BARNES.
19th January 1856.

151. ISAAC BARNES, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"Improvements in carriage lamps." *Letters Patent sealed.*

HORSFALL.
TURNBULL.
19th January 1856.

152. THOMAS HORSFALL, of Deptford, in the County of Kent, Engineer, and WILLIAM TURNBULL, of Rotherhithe, in the County of Surrey, Engineer, for an invention for—"Improved machinery for breaking and preparing hemp, flax, and other similar vegetable fibres." *Provisional protection only.*

AYCKBOURN.
19th January 1856.

153. FREDERICK AYCKBOURN, of 10, Princes Street, Stamford Street, Surrey, Gentleman, for an invention for—"Improvements in the cleaning of knives and forks." *Provisional protection only.*

VAN DEN HOUT.
BROWN.
19th January 1856.

154. HERMAN JOHN VAN DEN HOUT, Artist, and EBENEZER BROWN, Carver, both of Kentish Town, in the County of Middlesex, for an invention for—"Improvements in the preparation of pulp for the manufacture of paper, millboard, and other like purposes." *Provisional protection only.*

ROBERTSON.
19th January 1856.

155. CHARLES ROBERTSON, of 68, Mark Lane, Ship Master, for an invention for—"Improvements in mariners' compasses." *Letters Patent sealed.*

FENTON.
21st January 1856.

156. SAMUEL FENTON, Incumbent of Saint Mary's, Wavertree, in the County of Lancaster, for an invention for—"Certain improvements in locks and fastenings." *Provisional protection only.*

HADDAN.
21st January 1856.

157. JOHN COOPE HADDAN, of Cannon Row, in the City of Westminster, Civil Engineer, for an invention for—"Improvements in omnibuses and other similar carriages." *Letters Patent sealed.*

GEDGE.
21st January 1856.

158. JOHN GEDGE, of No. 4, Wellington Street South, Strand, in the County of Middlesex, Patent Agent, for an invention for—"Improvements in the manufacture of boots or shoes."—*A communication from H. M. Gillon, junior, of Sezanne, France.* *Provisional protection only.*

POCKSON.
21st January 1856.

159. JAMES POCKSON, of Penton Street, Walworth, County of Surrey, Carpenter, for an invention for—"Improvements in the construction of roofing and other tiles." *Letters Patent sealed.*

ROBSON.
21st January 1856.

160. JOHN WORDSWORTH ROBSON, of Grundy Street, Poplar New Town, Middlesex, Engineer, for an invention for—"Improvements in machinery appertaining to waterclosets and pumps."—*Complete specification.* *Letters Patent sealed.*

BLITTKOWSKI.
21st January 1856.

161. GUSTAV ADOLPH BLITTKOWSKI, of the City of New York, United States of America, for an invention for—"Improvements in repeating fire-arms." *Letters Patent sealed.*

TIEFFÉ-LACROIX.
22nd January 1856.

162. PIERRE LEWIS TIEFFÉ-LACROIX, of Metz, in the Empire of France, Mechanician Watch-maker, for an invention for—"Improvements in machinery for cutting files." *Letters Patent sealed.*

THIERRY.
RICHARD.
DE MARTINY.
22nd January 1856.

163. JEAN BAPTISTE PIERRE ALFRED THIERRY, junior, JEAN LOUIS RICHARD, both of Paris, Chemists, and Baron HENRY DE MARTINY, of Versailles (France), for an invention for—"Improvements in preventing smoke by means of a fumivore hygienic apparatus." *Letters Patent sealed.*

GEDGE.
22nd January 1856.

164. JOHN GEDGE, of No. 4, Wellington Street South, Strand, in the County of Middlesex, Patent Agent, for an invention for—"Improvements in wrought iron wheels."—*A communication from M. Charpentier, of Paris, France.* *Provisional protection only.*

GEDGE.
22nd January 1856.

165. JOHN GEDGE, of No. 4, Wellington Street South, Strand, in the County of Middlesex, Patent Agent, for an invention for—"Improvements in bending, edging, and soldering tin."—*A communication from M. Blanchefort, of Briery, France.* *Provisional protection only.*

FONTAINEMOREAU.
22nd January 1856.

166. PETER ARMAND LE COMTE DE FONTAINEMOREAU, of No. 4, South Street, Finsbury, London, and 39, Rue de l'Echiquier, Paris, in the Empire of France, Patent Agent, for an invention for—"Certain improvements in machinery or apparatus for manufacturing nails."—*A communication.* *Letters Patent sealed.*

ROBERTSON. 22nd January 1856.

167. ALEXANDER ROBERTSON, of Upper Holloway, in the County of Middlesex, Engineer, for an invention for—"A new manufacture of cases or canisters for dry goods, edibles, and such like commodities." *Provisional protection only.*

HITT. 22nd January 1856.

168. THOMAS HITT, of Tavistock Street, in the City of Westminster, Gentleman, for an invention for—"Certain arrangements of machinery for converting reciprocating into rotary motion." *Provisional protection only.*

LAWSON. JENNINGS. 22nd January 1856.

169. EDWARD LAWSON, of Leeds, in the County of York, Machine Maker, and GEORGE JENNINGS, of Hunslet, in the Parish of Leeds aforesaid, Mechanic, for an invention for—"Improvements in reeling-machines for winding flax, cotton, wool, and other yarns." *Letters Patent sealed.*

PORTEOUS. 22nd January 1856.

170. DUNDAS SMITH PORTEOUS, of Paisley, in the County of Renfrew, in Scotland, for an invention for—"A rotatory engine."—*Complete specification.* *Letters Patent sealed.*

FRANCIS. 22nd January 1856.

171. JOSEPH FRANCIS, of New York, in the United States of America, Engineer, for an invention for—"Improvements in the manufacture of metallic boats." *Letters Patent sealed.*

BEECH. JEFFREYS. 22nd January 1856.

172. JOHN BEECH, and EDWARD JEFFREYS, both of Shrewsbury, Engineers, for an invention for—"Improvements in the means of supporting the rails of railways." *Provisional protection only.*

HOOLE. 22nd January 1856.

173. HENRY ELLIOTT HOOLE, of Green Lane Works, Sheffield, in the County of York, Stove Grate and Fender Manufacturer, for an invention for—"Improvements in stove grates." *Letters Patent sealed.*

ONIONS. 23rd January 1856.

174. JOHN ONIONS, of Wellington Place, Blackfriars Road, Southwark, in the County of Surrey, Engineer, for an invention for—"Improvements in the manufacture of iron." *Provisional protection only.*

HOLCROFT. PEACOCK. 23rd January 1856.

175. GEORGE HOLCROFT, of the City of Manchester, Consulting Engineer, and JAMES PEACOCK, of Salford, in the County of Lancaster, Mechanical Engineer, for an invention for—"Improvements in casings for fencing horizontal shafts." *Provisional protection only.*

TOLHAUSEN. 23rd January 1856.

176. ALEXANDRE TOLHAUSEN, of No. 7, Duke Street, Adelphi, London, County of Middlesex, Sworn Interpreter at the Imperial Court of Paris, for an invention for—"An improved manufacture of yarn from wool or other felting material."—*A communication from John Henry Bloodgood, Rahnay, New Jersey, United States.* *Letters Patent sealed.*

TOLHAUSEN. 23rd January 1856.

177. ALEXANDRE TOLHAUSEN, of No. 7, Duke Street, Adelphi, London, County of Middlesex, Sworn Interpreter at the Imperial Court of Paris, for an invention for—"An improved lock joint for the rails of railways."—*A communication from James Richard Hilliard, United States of America.* *Letters Patent sealed.*

JOHNSON. 23rd January 1856.

178. WILLIAM JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, in the County of Lanark, North Britain, Civil Engineer, for an invention for—"Improvements in the treatment and application of fatty, resinous, and gummy substances, and in the manufacture of pastes, greases, and soaps."—*A communication.* *Letters Patent sealed; no specification filed.*

LLOYD. 23rd January 1856.

179. EDWARD LLOYD, of Dee Valley, near Corwen, Merionethshire, North Wales, Engineer, for an invention for—"Improvements in valves and in the valve-gear of locomotive and other steam-engines." *Provisional protection only.*

MEYER. 23rd January 1856.

180. JOHANNIS JOACHIM MATHIAS MEYER, of Bartlett's Buildings, in the City of London, Lithographer, for an invention for—"An improved mode of manufacturing bank notes, cheques, and other like documents." *Provisional protection only.*

HOPKINSON. 23rd January 1856.

181. JOSEPH HOPKINSON, the younger, of Huddersfield, in the County of York, Engineer, for an invention for—"Improvements in apparatus connected with steam-boilers." *Letters Patent sealed.*

TURNER. 23rd January 1856.

182. ARCHIBALD TURNER, of Leicester, India-Rubber Manufacturer, for an invention for—"Improvements in the manufacture of elastic fabrics." *Letters Patent sealed; no specification filed.*

BARNES.
23rd January 1856.

183. ISAAC BARNES, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"Improvements in the manufacture of knobs and furniture for doors, drawers, and other similar purposes;—parts of which improvements are also applicable to the manufacture of cornice-poles and other like articles."
Letters Patent sealed.

NEWMAN.
WHITTLE.
23rd January 1856.

184. JAMES NEWMAN, of Birmingham, in the County of Warwick, Manufacturer, and WILLIAM WHITTLE, of Smethwick, in the County of Stafford, Engineer, for an invention for—"Improvements in the manufacture of shafting for mill and engine purposes, which improvements are also applicable to the manufacture of shafts, poles, beams, masts, spars, and other similar articles in which great strength or lightness or both these qualities combined may be requisite." *Provisional protection only.*

NORRIS.
23rd January 1856.

185. STEPHEN NORRIS, of New Peter Street, Westminster, in the County of Middlesex, for an invention for—"Improvements in the manufacture of boots and shoes and other coverings for the human foot." *Letters Patent sealed.*

RICHOUX.
24th January 1856.

186. LOUIS ANTOINE ROMAIN RICHOUX, of Paris, Watch and Clock Maker, for an invention for—"Improvements in clock works." *Provisional protection only.*

SAMAIN.
24th January 1856.

187. PIERRE SAMAIN, of Meusnes (Loire et Cher), in the Empire of France, Lock Maker, for an invention for—"An improved levelling instrument."
Provisional protection only.

SOLMONS.
LANDER.
24th January 1856.

188. JOHN SOLMONS, of Birmingham, in the County of Warwick, Merchant, and EDWIN LANDER, of Birmingham aforesaid, Merchant, for an invention for—"A new or improved cigar holder." *Provisional protection only.*

ROTHWELL.
24th January 1856.

189. CHARLES ROTHWELL, of the firm of Taylor, Lang, & Co., Castle Iron Works, Staleybridge, in the County of Chester, for an invention for—"Improvements in self-acting mules." *Letters Patent sealed.*

STRAFFORD.
24th January 1856.

190. JOHN STRAFFORD, Lamp Maker, of Stratford, in the County of Essex, for an invention for—"Certain improvements in portable signal lamps for railway, marine, and other purposes." *Letters Patent sealed.*

GIMSON.
GIMSON.
24th January 1856.

191. JOHN GIMSON, of Staleybridge, in the County of Lancaster, Engineer, and GEORGE GIMSON, of the same place, Engineer, for an invention for—"An improved apparatus applicable to steam pipes used for the purposes of heating and drying;—which said apparatus may also be used for other similar purposes where steam is employed." *Letters Patent sealed.*

JOHNSON.
24th January 1856.

192. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in air beds, mattresses, and cushions."—*A communication from Jean Charles Leopold Jacob, of Paris, in the Empire of France, Manufacturer.* *Provisional protection only.*

PETTIT.
SMITH.
24th January 1856.

193. GEORGE BROOKS PETTIT, and HENRY FLY SMITH, of Oxford Street, in the County of Middlesex, Gas Engineers, for an invention for—"Improvements in gas heating apparatus." *Letters Patent sealed.*

FISHER.
24th January 1856.

194. DAVID FISHER, of No. 12, Ranelagh Road, Thames Bank, Middlesex, for an invention for—"Improvements in machinery for pressing, cutting, drying, and opening tobacco." *Letters Patent sealed.*

LONGRIDGE.
24th January 1856.

195. JAMES ATKINSON LONGRIDGE, of Fludyer Street, Westminster, in the County of Middlesex, for an invention for—"Improvements in the construction of ordnance and other vessels intended to resist internal pressure, and in the manufacture and method of discharging projectiles." *Provisional protection only.*

TOLHAUSEN.
25th January 1856.

196. ALEXANDRE TOLHAUSEN, of No. 7, Duke Street, Adelphi, London, County of Middlesex, Sworn Interpreter at the Imperial Court of Paris, for an invention for—"An improved machine for boring and other cutting operations in stone and other mineral substances of similar character."—*A communication from Hans Rees, John Loudon, and Otto Ahlstrom, Manufacturers, New York, United States.*
Letters Patent sealed.

CHAUCHARD.
25th January 1856.

197. FELIX CHAUCHARD, of Paris, in the Empire of France, for an invention for—"Improvements in the manufacture of paper and pasteboard from vegetable and wood substances." *Letters Patent sealed.*

SHANKS. WENHAM. 25th January 1856.

198. ANDREW SHANKS, Engineer, 6, Robert Street, Adelphi, Westminster, and FRANCIS HERBERT WENHAM, Engineer, Effra Vale Lodge, Brixton, Surrey, for an invention for—"Certain improvements in water gauges." *Letters Patent sealed.*

COLLINS. 25th January 1856.

199. WILLIAM WHITAKER COLLINS, of Buckingham Street, Adelphi, in the County of Middlesex, Civil Engineer, for an invention for—"An elastic junction applicable to carriages and other purposes." *Provisional protection* NOT *granted.*

KERSHAW. 25th January 1856.

200. JOHN KERSHAW, of Stockport, in the County of Chester, Manager, for an invention for—"Improvements in apparatus for preventing the explosion of steam-boilers." *Letters Patent sealed.*

WOODWARD. 25th January 1856.

201. GEORGE GOWER WOODWARD, of Kidderminster, in the County of Worcester, for an invention for—"Improvements in the manufacture of carpets." *Provisional protection only.*

PEAK. 25th January 1856.

202. JOSEPH PEAK, of the City of Manchester, in the County of Lancaster, Smith and Screw Bolt Manufacturer, for an invention for—"Improvements in machinery or apparatus for pointing and turning bolt heads, facing nuts, centreing, drilling, and similar purposes." *Provisional protection only.*

BEADS. 25th January 1856.

203. JOHN BEADS, of Pendleton, near Manchester, in the County of Lancaster, Manager, for an invention for—"Improvements in machinery or apparatus for spinning cotton, wool, or other fibrous substances, where self-acting mules are used." *Letters Patent sealed.*

DALGETY. 25th January 1856.

204. ALEXANDER DALGETY, of 76, Florence Road, Deptford, in the County of Kent, Engineer, for an invention for—"Improvements in vices or gripping or holding apparatus." *Letters Patent sealed.*

BROWN. 25th January 1856.

205. GENTLE BROWN, of Swinton, near Rotherham, in the County of York, Gentleman, for an invention for—"An improvement in the manufacture of cast steel." *Letters Patent sealed.*

OWEN. 25th January 1856.

206. WILLIAM OWEN, of the firm of Owen, Stodart, and Company, of Red Lion Square, in the County of Middlesex, Piano-forte Manufacturers, for an invention for—"An improvement in piano-fortes." *Letters Patent sealed.*

DESSALES. 25th January 1856.

207. ALEXIS JEAN DESSALES, of 13, Rue des Enfants Rouges, Paris, in the Empire of France, and of 43, Southampton Buildings, Chancery Lane, in the County of Middlesex, for an invention for—"Improvements in oil lamps and in reflectors for the same for railway carriages and other purposes." *Letters Patent sealed.*

INGALL. BROWNE. 26th January 1856.

208. GEORGE HENRY INGALL, of Old Broad Street, in the City of London, Gentleman, and GEORGE OSCAR SHAW BROWNE, of Glasshouse Street, in the County of Nottingham, Machinist, for an invention for—"An improved method of railway signalling." *Provisional protection only.*

DALGETY. 26th January 1856.

209. ALEXANDER DALGETY, of 76, Florence Road, Deptford, in the County of Kent, Engineer, for an invention for—"An improved self-acting stand or tilt for casks or barrels." *Letters Patent sealed.*

NAPIER. 26th January 1856.

210. GEORGE NAPIER, of Bath Street, Glasgow, in the County of Lanark, and of the Adelphi, in the County of Middlesex, Engineer, for an invention for—"Improvements in the construction and arrangement of the flues, air passages, and other parts of furnaces, and also in controlling the passage of smoke, and in heating and regulating the supply of air to facilitate combustion." *Letters Patent sealed.*

JOHNSON. 26th January 1856.

211. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in compressed air locomotive engines."—*A communication from Jean Pierre Louis Florimond Datichy, of Paris, in the Empire of France, Mechanician.* *Provisional protection only.*

GARDNER. 26th January 1856.

212. EDWARD VINCENT GARDNER, of 24, Norfolk Street, Middlesex Hospital, in the County of Middlesex, for an invention for—"Improvements in heating, drying, desiccating, and evaporating." *Letters Patent sealed.*

DORAN. 26th January 1856.

213. PATRICK DORAN, residing at No. 10, Cornwallis Street, in the Town of Liverpool, in the County of Lancaster, for an invention for—"Improvements in pneumatic apparatus for raising sunken vessels or other bodies under water, and for keeping afloat vessels or other bodies liable to sink." *Letters Patent sealed.*

HUILLARD. 26th January 1856.

214. JEAN LOUIS AMBROISE HUILLARD, of Paris, Manufacturing Chemist, for an invention for—"Improvements in the processes of singeing and dressing textile fabrics and in apparatus for the same." *Letters Patent sealed.*

SPURRIER. 26th January 1856.

215. WILLIAM SPURRIER, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"A new or improved method of attaching handles to metallic teapots and other vessels;—which method of attachment may also be applied to the fixing of castors on furniture, and other like purposes." *Letters Patent sealed.*

STATHAM. 26th January 1856.

216. SAMUEL STATHAM, of Islington, in the County of Middlesex, Gentleman, for an invention for—"Improvements in electric telegraph conductors." *Letters Patent sealed.*

DRESCHFELD. 26th January 1856.

217. WILHELM DRESCHFELD, of Manchester, in the County of Lancaster, Clerk, for an invention for—"An improvement in or addition to rollers employed in spinning." *Letters Patent sealed.*

BEASLEY. 26th January 1856.

218. WILLIAM BEASLEY, of Smethwick, in the County of Stafford, Manufacturer, for an invention for—"Improvements in machinery or apparatus to be employed in rifling the barrels of fire-arms and ordnance." *Letters Patent sealed.*

WALKER. BENNETT. 26th January 1856.

219. ALEXANDER JAMES WALKER, of the City of New York, and WILLIAM BENNETT, of the City of Brooklyn, both in the State of New York, United States of America, for an invention for—"An improved method of forming hat bodies or other felted articles." *Provisional protection only.*

LONGBOTTOM. LONGMAID. 28th January 1856.

220. ABRAM LONGBOTTOM, of 41, Moorgate Street, and WILLIAM LONGMAID, of Victoria Cottage, Stoke Newington, for an invention for—"Improvements in apparatus for generating and heating steam." *Provisional protection only.*

BROWN. BROWN. 28th January 1856.

221. PETER BROWN, of Liverpool, in the County of Lancaster, Corn Merchant, and GEORGE BROWN, of the same place, Corn Merchant, for an invention for—"Improvements in the method of cleaning, dressing, and preparing a certain description of seed or grain called 'Dari' and frequently called 'Millet,' and thereby rendering the same suitable for food." *Provisional protection only.*

WORMALD. 28th January 1856.

222. JOHN WORMALD, of Manchester, in the County of Lancaster, Calenderer and Packer, for an invention for—"Certain improvements in machinery or apparatus for folding, "fenting," and making up goods or fabrics." *Letters Patent sealed.*

HILLIARD. 28th January 1856.

223. HARVEY HILLIARD, of Glasgow, in the County of Lanark, North Britain, Cutler, for an invention for—"Improvements in articles of cutlery and in apparatus for sharpening and cleaning the same." *Provisional protection only.*

JULLIENNE. 28th January 1856.

224. AUGUSTIN MAGLOIRE JULLIENNE, of Herblay (Seine et Oise), France, Civil Engineer, for an invention for—"Improvements in breaks for railway trains." *Provisional protection only.*

D'AUVERGNE. 28th January 1856.

225. JEAN BAPTISTE JULES HYPPOLITE D'AUVERGNE, of Blois, in the Empire of France, Gentleman, for an invention for—"Improvements in portable writing or drawing desks." *Letters Patent sealed.*

SAMAIN. 28th January 1856.

226. PIERRE SAMAIN, of Meusnes (Loire et Cher), in the Empire of France, Lock Maker, for an invention for—"Improvements in tables, stools, and other pieces of household furniture." *Letters Patent sealed.*

GUÉRINOT. 28th January 1856.

227. PIERRE EMMANUEL GUÉRINOT, of Rue au Maire, in Paris, Mechanician Jeweller, for—"An invention for stopping instantaneously two railway trains running against each other." *Letters Patent sealed.*

BARROW. 28th January 1856.

228. ROBERT BARROW, of 32, Garford Street, Poplar, in the County of Middlesex, Engineer, for an invention for—"An equilibrium slide valve for steam-engines." *Letters Patent sealed.*

GOODE. 28th January 1856.

229. SAMUEL JABEZ GOODE, of Aston, near Birmingham, in the County of Warwick, Machinist, for an invention for—"A new or improved gas stove." *Provisional protection only.*

ASBURY. 28th January 1856.

230. WILLIAM ASBURY, of Birmingham, in the County of Warwick, Engineer, for an invention for—"A new or improved tap or stop cock." *Letters Patent sealed.*

DESTIBEAUX. 28th January 1856.

231. JEAN HECTOR DESTIBEAUX, Manufacturer, of Paris, in the French Empire, for an invention for—"An improved waterproof fabric." *Letters Patent sealed.*

WHITEHEAD. 28th January 1856.

232. JOHN WHITEHEAD, of Leeds, in the County of York, Machine Maker, for an invention for—"Improved machinery for fulling cloth."—*A communication.*
Letters Patent sealed.

KING. 28th January 1856.

233. HENRY SAMUEL KING, of the firm of Smith, Elder, & Company, of Cornhill, in the City of London, Stationers, for an invention for—"Improved apparatus for printing and embossing."—*A communication.* *Letters Patent sealed.*

DARLINGTON. 29th January 1856.

234. GEORGE DARLINGTON, Minera, near Wrexham, Denbighshire, for an invention for—"Producing oxyde of zinc from its ores." *Provisional protection only.*

SIMONS. 29th January 1856.

235. WILLIAM JOHN SIMONS, of Royston, in the County of Herts, Gentleman, for an invention for—"An improved governor for steam and other engines requiring governors." *Provisional protection only.*

FOXWELL. 29th January 1856.

236. DANIEL FOXWELL, of Manchester, in the County of Lancaster, Card Manufacturer, for an invention for—"Improvements in sewing-machines."
Letters Patent sealed.

LANCASTER. SMITH. 29th January 1856.

237. WILLIAM HENRY LANCASTER, and JAMES SMITH, both of Liverpool, in the County of Lancaster, for an invention for—"Improved arrangements for the application of gas and atmospheric air to the generation of heat in furnace or other flues and the consumption of smoke." *Letters Patent sealed.*

THATCHER. 29th January 1856.

238. ROBERT THATCHER, of Oldham, in the County of Lancaster, Cotton Spinner, for an invention for—"Certain improvements in preparing for doubling or spinning cotton or other fibrous substances." *Provisional protection only.*

FLEMING. FYFE. 29th January 1856.

239. JAMES FLEMING, Engine Keeper, of Glasgow, and GEORGE FYFE, Millwright, also of Glasgow, in the County of Lanark, for—"An invention for the consumption of smoke in engine and other fires." *Provisional protection only.*

MURRELL. 29th January 1856.

240. OWEN MURRELL, of Bethnal Green Road, in the County of Middlesex, for an invention for—"Improvements in swing looking-glasses."—*Provisional protection only.*

FOWLER. M'COLLIN. 29th January 1856.

241. WILLIAM FOWLER, and WILLIAM M'COLLIN, of the Borough of Kingston-upon-Hull, for an invention for—"An improved thrashing-machine."
Provisional protection only.

CHANCE. 29th January 1856.

242. HENRY CHANCE, of Birmingham, Glass Manufacturer, for an invention for—"An improvement in the manufacture of moulded articles when using vitreous materials." *Letters Patent sealed.*

GLADSTONE. 29th January 1856.

243. SAMUEL PALMER GLADSTONE, of Lea Cottage Orchard House, Poplar, for an invention for—"Improvements in the construction of masts and yards."
Letters Patent sealed.

WALTON. LE FRANÇOIS. 29th January 1856.

244. JOSEPH FOWELL WALTON, of Sarratt Hall, Rickmansworth, Herts, and HONORE LE FRANÇOIS, of Lambeth, in the County of Surrey, for an invention for—"Improvements in cleaning forks, spoons, stew-pans, and other culinary utensils."
Letters Patent sealed.

POPE. 29th January 1856.

245. ABRAHAM POPE, of Edgware Road, in the County of Middlesex, Engineer, for an invention for—"Improvements in the manufacture of iron, copper, tin, and lead." *Letters Patent sealed.*

DE BERGEVIN. 29th January 1856.

246. AUGUSTE MATHIEU MAURICE DE BERGEVIN, of 27, Rue Labat, Montmartre, Paris, for an invention for—"Improvements in preparing coal for burning, and in the furnaces employed in consuming such coal."—*Letters Patent sealed; no specification filed.*

WINFIELD. 30th January 1856.

247. ROBERT WALTER WINFIELD, of Birmingham, in the County of Warwick, Merchant and Manufacturer, for an invention for—"An improvement or improvements in the manufacture of metallic bedsteads and other articles of metallic furniture."
Letters Patent sealed.

WALSH. 30th January 1856.

248. JOHN HENRY WALSH, of Portland Place, Clapham Road, in the County of Surrey, for an invention for—"Improvements in omnibuses."
Provisional protection only.

TOWARD. 30th January 1856.

249. JOHN TOWARD, of the Glasshouse Bridge Iron Works, in the Town and County of Newcastle-upon-Tyne, Engineer, for an invention for—"Improvements in iron ship building and iron plates therefor, which plates are also applicable to other purposes where great strength is required." *Provisional protection only.*

CLAUS. 30th January 1856.

250. CHARLES FREDERICK CLAUS, of Latchford, in the County of Chester, Chemist, for an invention for—"Improvements in the preparation of hides or skins, also applicable to the preparation of the entrails of animals." *Letters Patent sealed.*

NEWTON. 30th January 1856.

251. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"An improvement in the manufacture of cannon."—*A communication.* *Letters Patent sealed.*

GOSSAGE. 30th January 1856.

252. WILLIAM GOSSAGE, of Widnes, in the County of Lancaster, Chemist, for an invention for—"Improvements in the manufacture of certain kinds of soap." *Provisional protection only.*

WILKINSON. 30th January 1856.

253. THOMAS FEWSTER WILKINSON, of 25, Bloomsbury Street, Bedford Square, London, Agricultural Engineer, for an invention for—"Improvements in reaping and mowing machines." *Letters Patent sealed; no specification filed.*

STEVENS. 30th January 1856.

254. JOHN LEE STEVENS, of the City of London, Civil Engineer, for an invention for—"Improvements in doors or apparatus for regulating the supply of air to steam-boiler and other flues and furnaces." *Letters Patent sealed.*

GRETTON. 30th January 1856.

255. JOHN GRETTON, of Burton-upon-Trent, in the County of Stafford, Brewer, for an invention for—"Improvements in brewing." *Letters Patent sealed.*

STOKES. 31st January 1856.

256. JOHN STOKES, of Birmingham, in the County of Warwick, Lamp Maker, for an invention for—"An improvement or improvements in fog signals." *Provisional protection only.*

HOLFORD. MASON. 31st January 1856.

257. HENRY HOLFORD, of Newton Iron Works, Hyde, in the County of Chester, Engineer, and MARK MASON, of the same place, Machine Maker, for an invention for—"Improvements in machinery or apparatus for compressing metals, and for manufacturing all kinds of metallic rivets, bolts, or similar articles."—*Letters Patent sealed.*

COULLARD-DESCOS. 31st January 1856.

258. AUBIN EMILE COULLARD-DESCOS, of Paris, in the Empire of France, for an invention for—"Improvements in consuming smoke." *Provisional protection only.*

MASH. 31st January 1856.

259. JAMES MASH, of the City of Manchester, in the County of Lancashire, Engineer, for an invention for—"Improvements in working the valves of steam-engines." *Letters Patent sealed.*

NAPIER. 31st January 1856.

260. GEORGE NAPIER, of Bath Street, Glasgow, in the County of Lanark, and of the Adelphi, in the County of Middlesex, Engineer, for an invention for—"Improvements in apparatus for raising, lowering, and suspending boats from ships." *Provisional protection only.*

TYLOR. 31st January 1856.

261. HENRY TYLOR, of the firm of Tylor and Pace, of New Bond Street, in the County of Middlesex, Manufacturers, for an invention for—"An improved joint applicable to cots, bedsteads, and other frames in metal." *Letters Patent sealed.*

KINNIBURGH. 31st January 1856.

262. JOHN KINNIBURGH, of Renfrew, in the County of Renfrew, North Britain, Foundry Manager, for an invention for—"Improvements in moulding or shaping metals." *Provisional protection only.*

HARRISON. ODDIE. 31st January 1856.

263. JOSEPH HARRISON, and JOHN ODDIE, both of Blackburn, in the County of Lancaster, Machinists, for an invention for—"Improvements in machines for winding yarn or thread on to spools or bobbins." *Provisional protection only.*

TURTON. ROOT. 31st January 1856.

264. THOMAS BURDETT TURTON, and JOHN ROOT, both of the Sheaf and Spring Works, Sheffield, in the County of York, for an invention for—"Improvements in buffer, bearing, and draw springs." *Letters Patent sealed.*

RENDER. 31st January 1856.

265. HENRY RENDER, of Manchester, in the County of Lancaster, Merchant, for an invention for—"A new or improved lubricating material." *Letters Patent sealed; no specification filed.*

KERSEY. 31st January 1856.

266. FREDERICK KERSEY, of 5, Laurie Terrace, St. George's Road, Southwark, for an invention for—"An improvement in the manufacture of drain pipes." *Provisional protection only.*

COTTAM.
COTTAM.
31st January 1856.

267. GEORGE HALLEN COTTAM, and HENRY RICHARD COTTAM, of Old St. Pancras Road, for an invention for—"Improvements in folding bedsteads and chairs." *Letters Patent sealed.*

ANDERSON.
31st January 1856.

268. JOHN BARKER ANDERSON, of East Hill, Wandsworth, in the County of Surrey, Soap Manufacturer, for an invention for—"Improvements in the manufacture of soap;—parts of which improvements are applicable to preparing materials for the purposes of illumination, and also for the purposes of lubrication." *Letters Patent sealed.*

HURST.
31st January 1856.

269. THOMAS HURST, of Tanner Street, Barking, in the County of Essex, Railway Contractor, for an invention for—"Improvements in the connecting of the rails or 'metals' generally used on railways." *Letters Patent sealed.*

JOHNSON.
31st January 1856.

270. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in gas-burners and in regulating the combustion of gas."—*A communication from Pierre Alexis Maunoury, of Paris, in the Empire of France, Mechanician.* *Letters Patent sealed.*

MACPHERSON.
1st February 1856.

271. ALLAN MACPHERSON, of Brussels, in the Kingdom of Belgium, Gentleman, for an invention for—"Improvements in obtaining and applying motive-power."—*A communication.* *Provisional protection only.*

KER.
1st February 1856.

272. MATTHEW KER, of No. 8, Cumberland Market, in the Parish of St. Pancras, in the County of Middlesex, for an invention for—"A machine for sweeping carpeted and other floors." *Letters Patent sealed.*

SCHISCHKAR.
1st February 1856.

273. EDWARD SCHISCHKAR, of Halifax, in the County of York, Manufacturer, for an invention for—"Improvements in dyeing and colouring wools, hairs, silks, yarns, and textile fabrics made of the same materials, either wholly or partially." *Letters Patent sealed.*

PRESTON.
1st February 1856.

274. FRANCIS PRESTON, of the City of Manchester, Machinist, for an invention for—"Improvements in machinery for shaping and rolling metal."—*Letters Patent sealed.*

HOLCROFT.
SMITH.
HOLCROFT.
1st February 1856.

275. GEORGE HOLCROFT, JOSEPH SMITH, and THOMAS HOLCROFT, all of the City of Manchester, Engineers, for an invention for—"Improvements in machinery for preparing, spinning, and doubling cotton and other fibrous materials." *Letters Patent sealed.*

MOATE.
1st February 1856.

276. CHARLES ROBERT MOATE, of No. 65, Old Broad Street, in the City of London, Metal Broker, for an invention for—"An improvement in securing and sustaining the rails of railways." *Letters Patent sealed.*

FONTAINEMOREAU.
1st February 1856.

277. PETER ARMAND LE COMTE DE FONTAINEMOREAU, of 39, Rue de l'Echiquier, Paris, and of No. 4, South Street, Finsbury, London, Patent Agent, for an invention for—"Certain improvements in the saponification of fatty matters."—*A communication.* *Letters Patent sealed.*

DRAY.
1st February 1856.

278. WILLIAM DRAY, of the firm of Deane, Dray, and Deane, of King William Street, in the City of London, Manufacturers, for an invention for—"An improved cartridge box and pouch." *Provisional protection only.*

LAMB.
RONALDS.
1st February 1856.

279. ANDREW LAMB, of Southampton, in the County of Hants, Engineer, and JOHN RONALDS, of the same place, Ship Builder and Naval Architect, for an invention for—"An improvement in the construction of iron ships, boats, and other similar structures." *Letters Patent sealed.*

FAWCETT.
1st February 1856.

280. FRANCIS BEST FAWCETT, of Kidderminster, in the County of Worcester, Carpet Manufacturer, for an invention for—"Improvements in the manufacture of carpets." *Letters Patent sealed.*

BESTWICK.
BURY.
1st February 1856.

281. HENRY BESTWICK, of Manchester, in the County of Lancaster, Brass Founder, and JOSEPH BURY, of the same place, Brass Founder, for an invention for—"Certain improvements in cocks, taps, or valves." *Letters Patent sealed.*

HOOPER.
HOOPER.
1st February 1856.

282. GEORGE NORGATE HOOPER, and WILLIAM HOOPER, of the Haymarket, in the County of Middlesex, Carriage Builders, for an invention for—"Improvements in springs for carriages, and for the cushions of carriages, chairs, mattresses, beds, and other similar articles." *Letters Patent sealed.*

CHANCE. 1st February 1856.

283. JAMES TIMMINS CHANCE, of Birmingham, for an invention for—"Improvements in furnaces used for flattening glass." *Letters Patent sealed.*

DUCKETT. 1st February 1856.

284. GEORGE DUCKETT, of 5, Norfolk Terrace, Westbourne Grove West, Bayswater, for an invention for—"Improvements in carts and vans." *Provisional protection only.*

DANNEQUIN. 1st February 1856.

285. AUGUSTE EUGÈNE DANNEQUIN, of Rue de l'Echiquier, in Paris, Tailor, for an invention for—"Certain improvements in caoutchouc or any other waterproof garments." *Provisional protection only.*

JOUBERT. BORDIER. 1st February 1856.

286. CHARLES CATHERINE JOUBERT, of Rue de Moscow, and LEON ANDRE BORDIER, of Rue de la Ferme des Mathurins, both in Paris, in the Empire of France, for an invention for—"Improvements in motive-power engines."—*Letters Patent sealed.*

MILLER. 1st February 1856.

287. BENJAMIN FRANKLIN MILLER, of the City, County, and State of New York, United States of America, for an invention for—"Improvements in ventilators for chimneys and other purposes." *Letters Patent sealed.*

BEAMISH. 1st February 1856.

288. JOHN O'MEARA BEAMISH, of Trafalgar Road, Old Kent Road, Gentleman, for an invention for—"An improvement in the manufacture of morocco leather." *Letters Patent sealed.*

WARD. 2nd February 1856.

289. JAMES TOWNSEND WARD, of Swansea, in the County of Glamorgan, Manufacturer, for an invention for—"A new or improved omnibus."—*Letters Patent sealed.*

DAY. 2nd February 1856.

290. JOHN ROCK DAY, of Birmingham, in the County of Warwick, Machinist, for an invention for—"A new or improved door lock and latch." *Letters Patent sealed.*

NAPIER. 2nd February 1856.

291. GEORGE NAPIER, of Bath Street, Glasgow, in the County of Lanark, and of the Adelphi, in the County of Middlesex, Engineer, for an invention for—"Improvements in 'breaks' for railway and other carriages." *Provisional protection only.*

BURLEIGH. 2nd February 1856.

292. BENJAMIN BURLEIGH, of the Great Northern Railway, King's Cross, for an invention for—"Improvements in certain parts of the permanent way of railways." *Letters Patent sealed.*

CURTIS. 2nd February 1856.

293. WILLIAM JOSEPH CURTIS, of 1, Sebbon Street, Islington, in the county of Middlesex, for an invention for—"Improvements in machinery for excavating land for the constructing tunnels." *Provisional protection only.*

GOODMAN. 2nd February 1856.

294. WILLIAM GOODMAN, of 3, Canning Place, Leicester, for an invention for—"Improvements in machinery for producing knit or looped fabrics." *Letters Patent sealed.*

TOLHAUSEN. 4th February 1856.

295. ALEXANDRE TOLHAUSEN, of No. 7, Duke Street, Adelphi, London, County of Middlesex, Sworn Interpreter at the Imperial Court of Paris, for an invention for—"Certain improvements in machinery for picking, carding, and combing fibrous substances."—*A communication from Richard Kitson, of Lowell, United States of America.* *Letters Patent sealed.*

PAULING. 4th February 1856.

296. RICHARD CLARKE PAULING, of 18, Great George Street, Westminster, Civil Engineer and Surveyor, for an invention for—"Expelling water from vessels and keeping them from sinking, raising sunken vessels, keeping water out of coffer dams, caissons, foundations, or vessels or works that are below water, and propelling vessels on and through water." *Provisional protection only.*

BODMER. 4th February 1856.

297. RUDOLPH BODMER, of 2, Thavies Inn, Holborn, in the City of London, for an invention for—"An improved lubricating oil."—*A communication.* *Letters Patent sealed.*

WALLER. 4th February 1856.

298. RALPH WALLER, of the City of Manchester, Manufacturer, for an invention for—"Improvements in machinery for preparing cotton and other fibrous materials." *Letters Patent sealed.*

ROBINSON. 4th February 1856.

299. ELISHA SMITH ROBINSON, of the City of Bristol, Paper Merchant, for an invention for—"Improvements in machinery for lithographic and zincographic printing." *Letters Patent sealed.*

HUDSON. 4th February 1856.

300. CHARLES HENRY HUDSON, of No. 4, Highbury Cottages, Holloway Road, in the County of Middlesex, Joiner, for an invention for—"A retiring door or lid for boxes, cabinets, closets, rooms, carriages, and for all places or receptacles where or in which doors or lids are at present in use or may be used."—*Provisional protection only.*

CLARK.
4th February 1856.

301. EDWIN CLARK, of 24, Great George Street, Westminster, for an invention for —"An improvement in the apparatus for suspending insulated electric telegraph wires." *Letters Patent sealed.*

WHITING.
4th February 1856.

302. MATTHEW WHITING, junior, of Manning Street, Bermondsey, Tanner, for an invention for—" Improvements in preparing for and in tanning hides and skins." *Letters Patent sealed; no specification filed.*

THOMSON.
4th February 1856.

303. JOHN THOMSON, of Newton-le-Willows, in the County of Lancaster, Sugar Refiner, for an invention for—" Improvements in centrifugal apparatus to be used in the separation of liquids from granular and crystalline matters." *Provisional protection only.*

AGER.
4th February 1856.

304. NATHAN AGER, of Upper Ebury Street, Pimlico, in the County of Middlesex, Carpenter, for an invention for—" Improvements in connecting spindles of locks and latches with their knobs and handles." *Letters Patent sealed.*

TURNER.
4th February 1856.

305. WILLIAM ALLEN TURNER, of No. 125, Wood Street, Cheapside, in the City of London, India-Rubber Manufacturer, for an invention for—"An improved preparation or mixture to be used in the manufacture of compounds of india-rubber or caoutchouc." *Provisional protection only.*

MILLS.
4th February 1856.

306. THOMAS MILLS, of Leicester, in the County of Leicester, Manufacturer of Gloves and Fancy Hosiery, for an invention for—" Improvements in machinery for the manufacture of looped fabrics." *Provisional protection only.*

THOMAS.
5th February 1856.

307. GEORGE CUMINS THOMAS, of Washington City, United States, but now of 67, Gracechurch Street, London, for an invention for—"An improved method of hardening and tempering steel."—*A communication.* *Letters Patent sealed.*

HYCKERT.
5th February 1856.

308. FRANS VICTOR OSCAR HYCKERT, of Paris, in the Empire of France, for an invention for—" Improvements in heating." *Provisional protection only.*

HINCHLIFFE.
5th February 1856.

309. THOMAS HINCHLIFFE, of Mill Bridge, in Liversedge, in the Parish of Birstall, in the West Riding of the County of York, Engineer, for an invention for—" Certain improvements in machinery or apparatus for 'drawing' and 'spinning' wool or other fibrous substances, or wool mixed with other fibrous substances." *Letters Patent sealed.*

PARNELL.
5th February 1856.

310. MICHAEL LEOPOLD PARNELL, Patent Lock Manufacturer, of No. 283, Strand, in the Parish of St. Clement Danes, in the County of Middlesex, for an invention for—" An improvement in the construction of locks."—*Letters Patent sealed.*

BERGNER.
5th February 1856.

311. THEODORE BERGNER, of the firm of Howson and Bergner, of Philadelphia, in the United States of America, and of No. 19, Arundel Street, Strand, London, for an invention for—" Embossing veneers so as to represent carvings in wood."—*A communication from Israel Amies, of Philadelphia.* *Letters Patent sealed.*

JENNINGS.
5th February 1856.

312. FRANCIS MONTGOMERY JENNINGS, of the City of Cork, Manufacturing Chemist, for an invention for—" Improvements in bleaching vegetable fibres." *Letters Patent sealed.*

HOWARD.
5th February 1856.

313. JAMES HOWARD, of Bedford, Agricultural Implement Maker, for an invention for—" Improved apparatus for making moulds for castings."—*Letters Patent sealed.*

M'DOUGALL.
5th February 1856.

314. ALEXANDER M'DOUGALL, of Manchester, in the County of Lancaster, Manufacturing Chemist, for an invention for—" Improvements in treating bones, other animal matters, and other substances containing phosphates, for the purpose of obtaining manure and other products." *Letters Patent sealed.*

HELY.
5th February 1856.

315. ALFRED AUGUSTUS DE REGINALD HELY, of 296, Oxford Street, in the County of Middlesex, Glass Merchant, for an invention for—" Certain improvements applicable in the burning of gas." *Provisional protection only.*

WILLIAMS.
5th February 1856.

316. THOMAS WILLIAMS, of Clerkenwell, in the County of Middlesex, Mechanist, for an invention for—" Improvements in omnibuses." *Provisional protection only.*

SQUIRE.
5th February 1856.

317. HENRY SQUIRE, of No. 41, Ludgate Hill, in the City of London, for an invention for—"An improved seal or fastening for envelopes, deeds, and documents." *Provisional protection only.*

NAPIER. MILLER. 6th February 1856.

318. GEORGE NAPIER, of Bath Street, Glasgow, in the County of Lanark, and of the Adelphi, in the County of Middlesex, and JOHN MILLER, of Cavendish Street, Glasgow, in the County of Lanark, for an invention for—"Improvements in the mode of driving and in applying screw propellers to the propulsion of vessels." *Letters Patent sealed.*

THOMAS. 6th February 1856.

319. JOSEPH THOMAS, of Finsbury Square, in the County of Middlesex, Gentleman, for an invention for—"Improvements in the manufacture of soap from the greasy matters obtained from the refuse water, wash, or suds used in woollen or other manufactures or processes."—*A communication.* *Provisional protection only.*

DODGEON. BATESON. 6th February 1856.

320. JOHN DODGEON, of Burnley, in the County of Lancaster, Machinist, and JAMES WILSON BATESON, of Rawtenstall, in the County of Lancaster, Mechanic, for an invention for—"Certain improvements in looms for weaving." *Provisional protection only.*

FLETCHER. FLETCHER. 6th February 1856.

321. JOHN FLETCHER, of Salford, in the County of Lancaster, Ironfounder, and WILLIAM FLETCHER, of the same place, Millwright, for an invention for—"Improvements in the construction of weighing cranes and other similar elevating machines." *Letters Patent sealed.*

INSHAW. 6th February 1856.

322. JOHN INSHAW, of Birmingham, in the County of Warwick, Engineer, for an invention for—"A new or improved pressure gauge." *Letters Patent sealed.*

JOWETT. 6th February 1856.

323. HENRY ALFRED JOWETT, of Kentish Town, London, Engineer, for an invention for—"Improvements in railway breaks and carriages, and in signals connected therewith." *Provisional protection only.*

DE SAUTY. 6th February 1856.

324. CHARLES VICTOR DE SAUTY, of 4, St. Mary's Terrace, Walworth, in the County of Surrey, Electrician, for an invention for—"The prevention of the leading or fouling of fire-arms." *Provisional protection only.*

TYERMAN. 6th February 1856.

325. THOMAS FREDERICK TYERMAN, of Weymouth Street, Portland Place, in the County of Middlesex, Architect and Surveyor, for an invention for—"Improvements in apparatus to be applied to omnibuses and other carriages, for receiving wet umbrellas." *Letters Patent sealed.*

PRESTAGE. 6th February 1856.

326. FRANKLIN PRESTAGE, of Wylye, Heytesbury, in the County of Wilts, for an invention for—"Improvements in locomotive engines." *Letters Patent sealed.*

DUYCK. 6th February 1856.

327. JAMES EDWARD DUYCK, of Wandsworth, in the County of Surrey, Gentleman, for an invention for—"Improvements in the manufacture of oil cake." *Letters Patent sealed.*

FUNCKE. 6th February 1856.

328. CHARLES FREDERICK PHILIPP FUNCKE, of Herdecke, Westphalia, Tanner and Currier, for an invention for—"Improvements in tanning skins and hides." *Letters Patent sealed.*

MEACOCK. 6th February 1856.

329. JAMES MEACOCK, of Snow Hill, in the City of London, Gas-meter Maker, for an invention for—"An improved means of fixing diaphragms in gas-meters." *Letters Patent sealed.*

BLEASDALE. 7th February 1856.

330. RICHARD BLEASDALE, of Rochdale, in the County of Lancaster, Mechanic, for an invention for—"Certain improvements in the machines for spinning called 'throstles.'" *Provisional protection only.*

BERGNER. 7th February 1856.

331. THEODORE BERGNER, of Philadelphia, in the United States of America, and of No. 19, Arundel Street, Strand, in the County of Middlesex, for an invention for—"A new mode of preparing or facing surfaces of engraved or etched plates of metal or other substance, so that they may be readily printed from by a press without wiping."—*A communication from Samuel W. Lowe, of Philadelphia.* *Provisional protection only.*

KENWORTHY. 7th February 1856.

332. WILLIAM KENWORTHY, of Blackburn, in the County of Lancaster, Manufacturer, for an invention for—"Certain improvements in self-acting mules." *Letters Patent sealed.*

BROOMAN. 7th February 1856.

333. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent Agent, for an invention for—"A method of obtaining alcohol from the fruit or pod of the carob tree."—*A communication from John Minghelli.* *Letters Patent sealed.*

BERLETTE. 7th February 1856.

334. HENRY BERLETTE, of Boulogne-sur-Mer, in the Empire of France, for an invention for—"An improved apparatus for roasting coffee."—*Provisional protection only.*

WOODMAN. 8th February 1856.

335. JOHN WOODMAN, of the City of Manchester, in the County of Lancaster, Engineer, for—"An improved telegraph insulator." *Provisional protection only.*

TROCARD. 8th February 1856.

336. THEOPHILE FRANÇOIS TROCARD, Artist, of Bordeaux, Town in the French Empire, for an invention for—"An improved coffee-pot."—*Provisional protection only.*

RESTELL. 8th February 1856.

337. THOMAS RESTELL, of New Kent Road, in the County of Surrey, Chronometer Maker, for an invention for—"Improvements in breech-loading and revolving fire-arms and in cartridges." *Letters Patent sealed.*

JOWETT. 8th February 1856.

338. HENRY ALFRED JOWETT, of Kentish Town, London, Engineer, for an invention for—"Improvements in rails used for the construction of the permanent way of railways, and in the means of laying down and fixing them in conjunction with the present rails in use." *Provisional protection only.*

ROBERTSON. HOWDEN. 8th February 1856.

339. STEWART ROBERTSON, and JAMES HOWDEN, both of Glasgow, in the County of Lanark, North Britain, Engineers, for an invention for—"Improvements in machinery or apparatus for driving piles." *Provisional protection only.*

WALKER. 8th February 1856.

340. CHARLES WALKER, of Glasgow, in the County of Lanark, North Britain, Engineer, for an invention for—"Improvements in safety valves, and in apparatus for cleansing or purifying water in steam-boilers." *Letters Patent sealed.*

BOOTH. BECKETT. 8th February 1856.

341. JOHN BILLINGTON BOOTH, Spindle Manufacturer, and JAMES BECKETT, Overlooker, both of Preston, in the County of Lancaster, for an invention for—"Improvements in machinery for preparing and spinning cotton, wool, and other fibrous materials." *Provisional protection only.*

SWAN. SWAN. 9th February 1856.

342. CHARLES SWAN, and GEORGE FREDERICK SWAN, of 49, High Street, in the Borough of Southwark, Ink Manufacturers, for an invention for—"An improved colouring matter for writing, staining, or dyeing, which is also applicable to the production of a copying fluid."—*A communication.* *Letters Patent sealed.*

ELCE. COTTAM. 9th February 1856.

343. JOHN ELCE, and SAMUEL FLETCHER COTTAM, both of the City of Manchester, Machinists, for an invention for—"An improved mode of lubricating the spindles of machinery used in preparing and spinning cotton and other fibrous materials, revolving in a lifting rail." *Letters Patent sealed.*

WAILES. 9th February 1856.

344. GEORGE WAILES, of 10, Palace Row, New Road, in the County of Middlesex, Engineer, for an invention for—"Improvements in the construction of valves for regulating the passage of gas and other fluids." *Provisional protection only.*

DUNCAN. 9th February 1856.

345. JOHN WALLACE DUNCAN, of Grove End Road, St. John's Wood, in the County of Middlesex, Gentleman, for an invention for—"Improvements in or connected with apparatus for the generation and application of steam for impelling purposes."—*Complete specification.* *Letters Patent sealed.*

RAWLINGS. 9th February 1856.

346. JOHN RAWLINGS, of George and Catherine Wheel Yard, Bishopsgate Street, in the City of London, for an invention for—"Improvements in envelope or stationery cases." *Provisional protection only.*

MARTIN. 9th February 1856.

347. EDWARD MARTIN, of Oxford, for an invention for—"Improvements in cricket bats." *Provisional protection only.*

BURTON. 9th February 1856.

348. THEOPHILUS BURTON, of the City of Lincoln, Engineer and Agricultural Implement Maker, for an invention for—"An internal boiler cleaner or mud stirrer for the effectual cleaning of steam-boilers from muddy deposits and all kinds of sediments." *Provisional protection only.*

CAVÉ. 9th February 1856.

349. THEODULE CAVÉ, of Paris, in the Empire of France, for an invention for—"Improvements in oil lamps, which he calls the Continual Lamp." *Provisional protection only.*

SCHWARTZKOPFF. 9th February 1856.

350. LOUIS SCHWARTZKOPFF, of Berlin, for an invention for—"Improvements in apparatus for raising mud and soil from the bottoms of rivers and other waters." *Letters Patent sealed.*

BULLARD.
9th February 1856.

351. WILLIAM AUGUSTUS BULLARD, of Dedham, Massachusetts, United States of America, for an invention for—"An improvement in instruments for fastening doors."—*Partly a communication.* *Provisional protection only.*

MURATORI.
11th February 1856.

352. CHRISTOPHE MURATORI, of Paris, Doctor of Physics, for an invention for—"Improvements in the waterproofing of hangings or ornamenting stuffs." *Letters Patent sealed.*

ZAHN.
WELLS.
11th February 1856.

353. WILLIAM HENRY ZAHN, of New York, in the United States of America, but now residing in London, and JOSEPH HENRY GEORGE WELLS, of 3, Ebenezer Place, Neckinger Road, Bermondsey, Surrey, Mechanical Engineer and Draughtsman, for an invention for—"Improvements in windmills or wind engines." *Letters Patent sealed.*

HARFIELD.
11th February 1856.

354. WILLIAM HORATIO HARFIELD, of 113, Fenchurch Street, for an invention for—"Improvements in the manufacture of metallic screw nuts."—*A communication.* *Letters Patent sealed.*

STEVEN.
11th February 1856.

355. THOMAS STEVEN, of the Milton Foundry, Glasgow, in the Kingdom of Scotland, Iron Founder, for an invention for—"Improvements in the construction of open and close stoves, which improvements are applicable in part to kitchen ranges and boiler fire-places." *Letters Patent sealed.*

BESSEMER.
12th February 1856.

356. HENRY BESSEMER, of Queen Street Place, New Cannon Street, in the City of London, Civil Engineer, for an invention for—"Improvements in the manufacture of malleable or bar iron and steel." *Letters Patent sealed.*

GUIDICELLI.
12th February 1856.

357. JOSEPH MARIE GUIDICELLI, of No. 84, Rue Bonaparte, in the City of Paris, in France, Gentleman, for an invention for—"Improvements in the transformation of movement in steam-engines and other machinery." *Provisional protection only.*

BOUSFIELD.
12th February 1856.

358. GEORGE TOMLINSON BOUSFIELD, of Sussex Place, Loughborough Road, in the County of Surrey, for an invention for—"An improvement in treating fats and oils."—*A communication.* *Letters Patent sealed.*

BROOMAN.
12th February 1856.

359. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent Agent, for an invention for—"Improvements in the manufacture of cast steel."—*A communication.* *Letters Patent sealed.*

JABLONOWSKI.
12th February 1856.

360. FELIX PRUSS JABLONOWSKI, of the City of Brussels, in the Kingdom of Belgium, for an invention for—"A new process of chromo-lithographic painting on glass, porcelain, clays, lava, and other materials susceptible of vitrifaction, and on all metals and metallic compounds capable of receiving an enamelled surface." *Provisional protection only.*

STEINER.
13th February 1856.

361. FREDERICK STEINER, of Accrington, in the County of Lancaster, Turkey Red Dyer, for an invention for—"Improvements in machinery to be used in drying fabrics." *Letters Patent sealed.*

DAVID.
13th February 1856.

362. PIERRE ISIDOR DAVID, of Paris, in the Empire of France, Machinist, for an invention for—"Certain improvements in the method of bleaching." *Letters Patent sealed.*

MILLS.
13th February 1856.

363. JOHN MILLS, of the firm of Mills and Whittaker, of Oldham, in the County of Lancaster, Engineer, for an invention for—"Certain improvements in the slide valves of steam-engines." *Letters Patent sealed.*

VIGNAT.
13th February 1856.

364. LOUIS VIGNAT, of the firm of Vignat frères, of No. 3, Place des Victoires, in the City of Paris, Merchant, for an invention for—"A regulator-compensator for the weaving of ribbons and cloths." *Letters Patent sealed.*

MOUTRIE.
13th February 1856.

365. WILLIAM FREDERICK COLLARD MOUTRIE, of 4, King Street, Holborn, for an invention for—"An improvement in the damper action of pianofortes." *Letters Patent sealed.*

FOX.
13th February 1856.

366. SAMUEL FOX, of Stocks Bridge, in the Parish of Peniston, in the County of York, Wire Manufacturer, for an invention for—"Improvements in springs for railway and other carriages." *Letters Patent sealed.*

KNIGHT.
13th February 1856.

367. RICHARD KNIGHT, of Foster Lane, in the City of London, for an invention for—"Improvements in medical chests." *Letters Patent sealed.*

GILCHRIST. 13th February 1856.

388. WILLIAM GILCHRIST, of Kirkintilloch, in the County of Dumbarton, North Britain, Manufacturer, for an invention for—"Improvements in ornamental weaving." *Letters Patent sealed.*

NEWTON. 13th February 1856.

389. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in the manufacture of zinc."—*A communication.* *Letters Patent sealed.*

NEWTON. 13th February 1856.

370. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in the construction of fire-arms."—*A communication.* *Letters Patent sealed.*

NEWTON. 13th February 1856.

371. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improvements in springs applicable to railroad carriages and to other uses."—*A communication.* *Letters Patent sealed.*

MITCHELL. MITCHELL. CLARKSON. 13th February 1856.

372. HENRY FORT MITCHELL, and WILLIAM MITCHELL, Whitesmiths, and JOHN CLARKSON, Coal Merchant, all of Silsden, near Keighley, in the County of York, for an invention for—"Improvements in sewing-machines." *Letters Patent sealed.*

BARBER. 13th February 1856.

373. JOHN BARBER, of the City of Manchester, in the County of Lancaster, Engraver to Calico Printers, for an invention for—"Improvements in steam-engines." *Provisional protection only.*

KELLER. 13th February 1856.

374. GUSTAVE LOUIS KELLER, of Paris, in the Empire of France, Pocket Book Maker and Manufacturer, for an invention for—"A new kind or system of carpet or travelling bag." *Letters Patent sealed.*

PARSONS. 13th February 1856.

375. WILLIAM PARSONS, of No. 33, Hugh Street, Pimlico, in the County of Middlesex, for an invention for—"Improvements in spindles for locks and latches." *Provisional protection only.*

CAPP. 14th February 1856.

376. THOMAS PARKINSON CAPP, of the American and European Patent Offices, 67, Gracechurch Street, London, for an invention for—"An improved lamp." *Letters Patent sealed.*

MEYER. 14th February 1856.

377. JOHN CONRAD MEYER, of Paris, in the Empire of France, Civil Engineer, for an invention for—"Improvements in machinery for rolling metal." *Provisional protection only.*

RAMSBOTHAM. BROWN. 14th February 1856.

378. HENRY ROBERT RAMSBOTHAM, and WILLIAM BROWN, of Bradford, in the County of York, Wool Combers, for an invention for—"Improvements in combing wool, alpaca, cotton, and other fibrous substances." *Letters Patent sealed.*

PARKHURST. 14th February 1856.

379. STEPHEN ROSSIN PARKHURST, of the City, County, and State of New York, United States of America, for an invention for—"Improvements in sails and rigging for vessels." *Letters Patent sealed.*

M'FARLANE. 14th February 1856.

380. WALTER M'FARLANE, of Glasgow, in the County of Lanark, North Britain, Engineer, for an invention for—"Improvements in building and structural works and fittings in metal." *Letters Patent sealed.*

EMSLEY. 14th February 1856.

381. JOHN EMSLEY, of Bolton Road, Bradford, in the County of York, Overlooker, for an invention for—"Certain improvements in tube spinning frames employed in spinning worsted yarn and other fibrous substances." *Provisional protection only.*

COOPER. 14th February 1856.

382. GEORGE PATE COOPER, of No. 18, Sutherland Square, Walworth, in the County of Surrey, Shirt Maker, for an invention for—"An improved shirt collar." *Provisional protection only.*

TAYLOR. 14th February 1856.

383. JOHN TAYLOR, of Spring Grove, Hounslow, in the County of Middlesex, for an invention for—"An improvement in constructing and facing walls." *Letters Patent sealed.*

BARTHOLOMEW. 14th February 1856.

384. WILLIAM HAMOND BARTHOLOMEW, of 15, Brunswick Terrace, Leeds, for an invention for—"Improvements in propelling vessels when screws or submerged propellers are used." *Letters Patent sealed.*

MOREWOOD. ROGERS. 14th February 1856.

385. EDMUND MOREWOOD, and GEORGE ROGERS, of Enfield, in the County of Middlesex, for an invention for—"Improvements in drying and coating iron and copper." *Letters Patent sealed.*

HEWITSON. 14th February 1856.	386. WILLIAM WATSON HEWITSON, of Headingley, near Leeds, for an invention for—"An improvement in casting the bearings or brasses of machinery." *Letters Patent sealed.*
BLACKWELL. 14th February 1856.	387. THOMAS EVANS BLACKWELL, of Clifton, near Bristol, Gentleman, for an invention for—"Improvements in condensing steam and in cooling and heating fluids." *Letters Patent sealed.*
COWPER. 14th February 1856.	388. CHARLES COWPER, of 20, Southampton Buildings, Chancery Lane, in the County of Middlesex, Patent Agent, for an invention for—"Certain improvements in impregnating wood with preservative and colouring materials, and in apparatus for that purpose."—*A communication from the late Henri Boucherie, of Bordeaux, in France.* *Letters Patent sealed.*
GULLIVER. GOLDTHORPE. 14th February 1856.	389. GEORGE GULLIVER, and JOHN GOLDTHORPE, of Barnsley, in the County of York, Ironmongers, &c., for an invention for—"An improved signal bell." *Letters Patent sealed.*
DEISS. 14th February 1856.	390. EDOUARD DEISS, of Paris, in the Empire of France, Manufacturer of Chemical Products, for an invention for—"A method or methods of and apparatus for extracting oils, fats, greases, and resins, from bones, raw wool, seeds, and other substances containing the same, and recovering a certain agent employed in the process." *Letters Patent sealed.*
OLDFIELD. 15th February 1856.	391. EDWARD OLDFIELD, of the firm of Oddy, Thompson, and Oldfield, of the Adelphi Iron Works, Salford, in the County of Lancaster, Machine Makers, for an invention for—"Certain improvements in self-acting mules for spinning." *Letters Patent sealed.*
TOLHAUSEN. 15th February 1856.	392. ALEXANDRE TOLHAUSEN, of No. 7, Duke Street, Adelphi, London, County of Middlesex, Sworn Interpreter at the Imperial Court of Paris, for an invention for—"A machine for cutting articles of polygonal figure in wood or other material."—*A communication from Andrew Stoeckel, of New York, United States of America.* *Letters Patent sealed.*
LEACH. LEACH. LEACH. 15th February 1856.	393. EDMUND LEACH, JAMES LEACH, and EDMUND LEACH the younger, all of Rochdale, in the County of Lancaster, Machine Makers, for an invention for—"Improvements in machinery or apparatus for preparing, spinning, and drying yarns, and manufacturing the same into cloth." *Letters Patent sealed.*
HOGG. 15th February 1856.	394. JAMES HOGG, junior, Publisher, of No. 4, Nicolson Street, Edinburgh, in the County of Edinburgh, for an invention for—"Improvements in the manufacture of envelopes, and certain other combinations and applications of paper and gum denominated 'letter checks,' for containing and securing written, printed, or other communications." *Letters Patent sealed.*
DOBELL. 15th February 1856.	395. EBENEZER DOBELL, of Hastings, in the County of Sussex, Jeweller, for an invention for—"Improvements in lamp glasses or conductors of light." *Provisional protection only.*
ELLIOTT. LEACH. RATCLIFFE. 15th February 1856.	396. EDDLESTONE ELLIOTT, Woollen Manufacturer, CYRUS LEACH, Blacksmith, and JAMES RATCLIFFE, Spinner, all of Ridings, in the Parish of Rochdale, in the County of Lancaster, for an invention for—"Improvements in machinery for spinning wool and other fibrous substances." *Letters Patent sealed.*
JOHNSON. 15th February 1856.	397. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in fountain pens."—*A communication from Newell Anderson Prince, of New York, in the United States of America.* *Letters Patent sealed.*
NEWTON. 15th February 1856.	398. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improved machinery for making boots and shoes."—*A communication.* *Letters Patent sealed.*
ROCHETTE. 16th February 1856.	399. ANDRÉ PROSPER ROCHETTE, of Brighouse, near Huddersfield, for an invention for—"Improvements in treating soap suds to obtain products therefrom." *Provisional protection only.*
GRANT. 16th February 1856.	400. FREDERIC DANIEL GRANT, of Newgate Street, in the City of London, Lithographer, for an invention for—"A method of rendering printing inks and wax odoriferous." *Provisional protection only.*

PARKER.
16th February 1856.

401. FREDERICK PARKER, of the Halve, Trowbridge, in the County of Wilts, Engineer, for an invention for—"Improved apparatus for affording exercise to the human body." *Provisional protection only.*

HARRISON.
16th February 1856.

402. GEORGE HARRISON, of 4, Little Goodwin Street, Hull, in the County of York, for an invention for—"Improvements in axles for railway carriages." *Letters Patent sealed.*

HYAMS.
16th February 1856.

403. HYAM JACOB HYAMS, of Stanhope Street, Hampstead Road, in the County of Middlesex, Gas Meter Maker, for an invention for—"Improvements in the construction of gas meters." *Letters Patent sealed.*

SLEIGH.
18th February 1856.

404. WILLIAM WILLCOCKS SLEIGH, of London, in the County of Middlesex, Physician and Surgeon, for an invention for—"Producing motive-power, which he entitles 'The hydrostatic motive-power engine.'" *Letters Patent sealed.*

NEWTON.
18th February 1856.

405. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improvements in the construction of steam-engines for the purpose of converting the reciprocating motion into a rotary motion and for operating the slide valves."—*A communication.* *Letters Patent sealed.*

THOMSON.
BARCLAY.
18th February 1856.

406. JAMES STRANG THOMSON, of Kilmarnock, in the County of Ayr, North Britain, Manufacturer, and ANDREW BARCLAY, of the same place, Engineer, for an invention for—"Improvements in printing and embossing textile fabrics and other surfaces, and in the production of apparatus to be employed therein." *Letters Patent sealed.*

HODGKINSON.
18th February 1856.

407. HENRY HODGKINSON, of Donegall Street Place, Belfast, in the County of Antrim, for an invention for—"Improved machinery or apparatus for bleaching cotton, linen, and other woven or textile fabrics." *Letters Patent sealed.*

JONES.
ROWE.
PERRINS.
18th February 1856.

408. MOSES JONES, WILLIAM BROAD ROWE, and WILLIAM PERRINS, all of Broad Street, in the City of Worcester, Manufacturing Ironmongers and Copartners, for an invention for—"An improvement in ranges." *Provisional protection only.*

DEFRIES.
18th February 1856.

409. MOSS DEFRIES, of the firm of Jonas Defries and Sons, of Houndsditch, for an invention for—"An improvement in supplying oil to the burners of lamps." *Provisional protection only.*

HALE.
18th February 1856.

410. WILLIAM HALE, of Swan Walk, Chelsea, in the County of Middlesex, Engineer, for an invention for—"Improvements in propelling boats or other floating bodies." *Provisional protection only.*

WALENN.
19th February 1856.

411. WILLIAM HENRY WALENN, of 68, Chancery Lane, London, in the County of Middlesex, for an invention for—"Improvements in saw teeth."—*A communication from Nelson Barlow, of Newark, United States.* *Provisional protection only.*

GERBAUT.
19th February 1856.

412. HENRI GERBAUT, of Mulhouse, in the Empire of France, for an invention for—"Improvements in the manufacture of vinegar." *Provisional protection only.*

SICHEL.
19th February 1856.

413. SYLVESTER EMIL SICHEL, of Bradford, in the County of York, Merchant, for an invention for—"Certain improvements in apparatus for weaving 'ribbed' cloth and bands of 'chenille.'"—*A communication.* *Letters Patent sealed.*

WITTER.
19th February 1856.

414. FREDERICK AUSTIN SPALDING WITTER, of Manchester, in the County of Lancaster, Agent, for an invention for—"An improved stove."—*A communication.* *Letters Patent sealed.*

BOWERS.
19th February 1856.

415. WILLIAM HENRY BOWERS, of No. 4, Singleton Street South, East Road, in the County of Middlesex, for an invention for—"Improvements in the construction of railways." *Letters Patent sealed.*

COX.
19th February 1856.

416. STEPHEN FITCHEW COX, of the City of Bristol, for an invention for—"Improvements in the manufacture of leather and in the machinery for that purpose." *Letters Patent sealed.*

GEDGE.
19th February 1856.

417. JOHN GEDGE, of No. 4, Wellington Street South, Strand, in the County of Middlesex, Patent Agent, for an invention for—"Improvements in curry combs."—*A communication from F. B. Loubatieres, of Agen, in France.* *Provisional protection only.*

GEDGE.
19th February 1856.

418. JOHN GEDGE, of No. 4, Wellington Street South, Strand, in the County of Middlesex, Patent Agent, for an invention for—"Improvements in pumps."—*A communication from Auguste Andrien, of Castres, in the Empire of France.*
Provisional protection only.

JACKSON.
19th February 1856.

419. CHARLES SCOTT JACKSON, of 18, Cannon Street, in the City of London, Lieutenant in the Royal Navy, for an invention for—"An improvement in preserving and disinfecting timber and other substances." *Letters Patent sealed.*

MERRETT.
19th February 1856.

420. WILLIAM GWILLIM MERRETT, of 49, Leadenhall Street, for an invention for—"An improvement in trousers and drawers." *Letters Patent sealed.*

SAVORY.
ARKELL.
19th February 1856.

421. WILLIAM SAVORY, of Gloucester, Engineer, and HENRY ARKELL, of the same place, Builder, for an invention for—"Improvements in apparatus for the passage of water and other fluids." *Provisional protection only.*

WAYGOOD.
19th February 1856.

422. RICHARD WAYGOOD, of Newington Causeway, in the County of Surrey, Engineer, for an invention for—"An improved portable laundry or combined boiling, washing, mangling, and drying and ironing apparatus." *Provisional protection only.*

VÉREL.
20th February 1856.

423. WILLIAM ARISTIDES VÉREL, of Macduff, in the County of Banff, Merchant, for an invention for—"Improvements in grinding or pulverizing hoofs and horns, and in using them alone or mixed with pulverized bones for manure."—*Complete specification.* *Letters Patent sealed.*

LAMING.
20th February 1856.

424. RICHARD LAMING, of Carlton Villas, Maida Vale, Paddington, in the County of Middlesex, for an invention for—"Improvements in purifying gas, in preparing materials useful for purifying gas, and in apparatus to be used in purifying gas and disinfecting gas liquors or washings." *Letters Patent sealed.*

SMITH.
GILL.
20th February 1856.

425. THOMAS SMITH, and JOSEPH GILL, of Hebden Bridge, in the County of York, Manufacturers, for an invention for—"Improvements in the mode or method of casing horizontal shafting." *Letters Patent sealed.*

MUIR.
20th February 1856.

426. WILLIAM MUIR, of the Britannia Works, in the City of Manchester, Engineer, for an invention for—"Improvements in slide lathes."—*Letters Patent sealed.*

KNOWLES.
20th February 1856.

427. JAMES KNOWLES, of Eagley Bank, near Bolton-le-Moors, in the County of Lancaster, Coal Proprietor, for an invention for—"Improvements in the construction of metallic pistons." *Letters Patent sealed.*

LYNN.
20th February 1856.

428. WILLIAM LYNN, of Her Majesty's Dockyard, Portsmouth, Assistant Inspector of Machinery, for an invention for—"Improvements in the construction and mode of applying screws for propelling vessels." *Letters Patent sealed.*

GEDGE.
20th February 1856.

429. JOHN GEDGE, of No. 4, Wellington Street South, Strand, in the County of Middlesex, Patent Agent, for an invention for—"Improvements in syphons."—*A communication from Bernard Auguste Serres Duvignau, residing in France.*
Provisional protection only.

BROOMAN.
20th February 1856.

430. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent Agent, for an invention for—"Improvements in working railway switches and crossings and certain indicating apparatus for preventing accidents on railways."—*A communication from A. Dumas, of Paris.* *Provisional protection only.*

FREER.
20th February 1856.

431. JOHN FREER, of Rothley, in the County of Leicester, Agricultural Implement Maker, for an invention for—"Improvements in machines for planting grain and seed, and an improved seed feeder and meter for planting-machines."
Letters Patent sealed.

CLIBRAN.
CLIBRAN.
20th February 1856.

432. WILLIAM CLIBRAN, and JOSEPH CLIBRAN, of the City of Manchester, Machinists and Manufacturers of Gas Regulators, for an invention for—"Improvements in and applicable to apparatus or mechanism for measuring and regulating the flow of gas, and in the mode of constructing parts thereof."—*Provisional protection only.*

JOHNSON.
20th February 1856.

433. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in steam-engines."—*A communication from Narcisse Duvoir, of Leancourt, in the Empire of France, Mechanician.* *Provisional protection only.*

JOHNSON.
20th February 1856.

434. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in machinery or apparatus for lubricating bearings;—parts of which improvements are applicable to the raising or elevating of liquids."—*A communication from Eugène Bourdon, of Paris, in the Empire of France, Mechanical Engineer.*
Letters Patent sealed.

CLARK.
AUSTIN.
20th February 1856.

435. JEREMIAH CLARK, of 13, Moorgate Street, in the City of London, Stationer, and JAMES AUSTIN, of the same place, Stationer's Assistant, for an invention for—"Improvements in apparatus for stoppering or closing bottles, jars, and other similar vessels." *Letters Patent sealed.*

AULD.
STEPHEN.
20th February 1856.

436. DAVID AULD, of the City of Glasgow, in the County of Lanark, North Britain, Engineer, and JOHN STEPHEN, of the same place, Mill Manager, for an invention for—"Improvements in steam-boilers and furnaces, and in apparatus connected therewith, and in the consumption or prevention of smoke." *Letters Patent sealed.*

SHERWOOD.
20th February 1856.

437. HENRY SHERWOOD, of Esholt, near Leeds, in the County of York, Woollen and Worsted Manufacturer, for an invention for—"Improved means of treating the 'spun waste' of wool, cotton, silk, flax, hemp and other fibrous substances, so as to render it suitable for re-working." *Provisional protection only.*

BARSHAM.
20th February 1856.

438. JOHN BARSHAM, of Kingston-upon-Thames, in the County of Surrey, Manufacturer, for an invention for—"Improvements in the manufacture of cases or packings for bottles and jars." *Letters Patent sealed.*

JOHNSTON.
DIXON.
20th February 1856.

439. WILLIAM OLIVER JOHNSTON, of Broomhill Colliery, Acklington, Northumberland, Engineer, and JOHN DIXON, of High Bridge Works, Newcastle-upon-Tyne, Engineer, for an invention for—"Improvements in cutting and working coal."
Letters Patent sealed.

MOLL.
21st February 1856.

440. ISAAC MOLL, Merchant, of Cologne, in the Kingdom of Prussia, for an invention for—"The treatment of the sulphate of alumine of commerce, and its formation of compounds useful for the disinfecting of organic substances in a state of putrefaction, as well as for other purposes." *Letters Patent sealed.*

JOYEUX.
21st February 1856.

441. LOUIS AUGUSTE JOYEUX, of Marseilles, in the Empire of France, for an invention for—"Improvements in obtaining motive-power."—*Provisional protection only.*

MAISSIAT.
21st February 1856.

442. JACQUES HENRI MARIE MAISSIAT, of Paris, in the Empire of France, for an invention for—"Improvements in projectiles for fire-arms."—*Letters Patent sealed.*

DAWSON.
21st February 1856.

443. WILLIAM DAWSON, of Otley, in the County of York, Machine Maker, for an invention for—"Improvements in machinery or apparatus for cutting paper or other materials." *Provisional protection only.*

BENNETT.
DUGDALE.
21st February 1856.

444. THOMAS BENNETT, and WILFRED PRESTON DUGDALE, of Farnworth, in the County of Lancaster, Spindle and Flyer Manufacturers, for an invention for—"Improvements in flyers used in spinning-machinery." *Provisional protection only.*

GEDGE.
21st February 1856.

445. JOHN GEDGE, of No. 4, Wellington Street South, Strand, in the County of Middlesex, Patent Agent, for an invention for—"Improvements in looms."—*A communication from Jullien Desage, of Rheims, France.* *Provisional protection only.*

ENTHOVEN.
21st February 1856.

446. FREDERICK ENTHOVEN, of Moorgate Street, in the City of London, Gentleman, for an invention for—"An improved cover for gunpowder and other canisters and vessels."—*A communication from C. Enthoven, of the Hague.*
Provisional protection only.

GREENE.
21st February 1856.

447. JAMES DURELL GREENE, of Craven Street, in the City of Westminster, Gentleman, for an invention for—"An improvement in breech-loading fire-arms."
Letters Patent sealed.

CLARKE.
21st February 1856.

448. WILLIAM CLARKE, of Nottingham, Manufacturer, for an invention for—"Improvements in the manufacture of warp fabrics." *Letters Patent sealed.*

CHATWIN.
CHATWIN.
21st February 1856.

449. THOMAS TURNER CHATWIN, of Birmingham, in the County of Warwick, Manufacturer, and JOHN FREDERICK CHATWIN, of Birmingham aforesaid, Manufacturer, for an invention for—"Improvements in buttons."—*Provisional protection only.*

DIMENT.
21st February 1856.

450. JAMES DIMENT, of the City of Bristol, Plasterer, for an invention for—"provements in the manufacture of cements."—*Letters Patent sealed; no specification*

DENNET.
PAYS.
21st February 1856.

451. CHARLES FREDERICK DENNET, of Lansdowne Villas, Kensington Parl the County of Middlesex, Gentleman, and GEORGE PAYS, of 260, Oxford Stree the same County, Army Contractor, for an invention for—"Improvements in touche and percussion cap pouches." *Provisional protection*

HEYWOOD.
LLOYD.
22nd February 1856.

452. JOHN SHARP CROMARTIE HEYWOOD, of Battle Bridge, in the Count Middlesex, and GEORGE LLOYD, of Great Guildford Street, Southwark, in the Cou of Surrey, for an invention for—"Improvements in condensing vapours in distilla operations, the manufacture of varnishes, melting and distilling of fats, and o manufacturing or chemical operations, and obtaining useful products therefrom." *Letters Patent sea*

MOWBRAY.
22nd February 1856.

453. FREDERICK WILLIAM MOWBRAY, of Saltaire, near Bradford, in the Cou of York, Gentleman, for an invention for—"Improvements in machinery or appar employed in spinning and doubling." *Letters Patent sea*

FIELD.
HUMFREY.
22nd February 1856.

454. JOHN KINGSFORD FIELD, of Lambeth, in the County of Surrey, V Chandler, and CHARLES HUMFREY, of No. 14, The Terrace, Camberwell, in the County of Surrey, Gentleman, for an invention for—"Improvements in the manu ture of paraffine candles." *Letters Patent sea*

WALLACE.
SOWELL.
22nd February 1856.

455. WILLIAM VINCENT WALLACE, of Great Portland Street, in the Count Middlesex, Gentleman, and BENJAMIN LAWRENCE SOWELL, of Harrow Road, in same County, Gentleman, for an invention for—"Improvements in treating tobacc order to manufacture cigars and other articles for smoking, together with the ma facture of cigars and cheroots from tobacco so treated."—*A communication.* *Letters Patent sea*

GRIFFITHS.
22nd February 1856.

456. JAMES GRIFFITHS, of Wolverhampton, in the County of Stafford, Engin for an invention for—"A new or improved break for colliery and other steam-engine *Letters Patent sea*

BOWER.
22nd February 1856.

457. LEONARD BOWER, of Birmingham, in the County of Warwick, Manufactu for an invention for—"New or improved machinery for the manufacture of screws." *Letters Patent sea*

STRANG.
22nd February 1856.

458. WILLIAM STRANG, of Glasgow, in the County of Lanark, North Brit Manufacturer, for an invention for—"Improvements in ornamental weaving." *Letters Patent sea*

TOUCAS.
22nd February 1856.

459. GEORGES TOUCAS, of 39, Rue de l'Echiquier, Paris, in the Empire of Fra and of 4, South Street, Finsbury, London, Metallurgist, for an invention for—"A n metallic alloy." *Letters Patent sea*

SCHISCHKAR.
23rd February 1856.

460. EDWARD SCHISCHKAR, of Halifax, in the County of York, Manufacturer, an invention for—"Improvements in cleansing silk, hair, wool, yarn and textile fabric *Letters Patent sea*

GEDGE.
23rd February 1856.

461. JOHN GEDGE, of No. 4, Wellington Street South, Strand, in the County Middlesex, Patent Agent, for an invention for—"Improvements in preparing and co bining metallic substances for producing colours, and in manufacturing the same." *A communication from C. Rostaing, of Dresden.* *Provisional protection on*

BOYD.
23rd February 1856.

462. JAMES EDWARD BOYD, of Hither Green, Lewisham, in the County of Ke Gentleman, for an invention for—"Improvements in scythes."—*Letters Patent sea*

JONES.
23rd February 1856.

463. DAVID JONES, of Greenhill Villa, Ragland, in the County of Monmou Civil Engineer, for an invention for—"Certain improvements in obtaining and applyi motive-power." *Letters Patent sealed; no specification fil*

SPENCER.
23rd February 1856.

464. GEORGE HOLME SPENCER, of Hathersage (near Sheffield), in the County Derby, Manufacturer, for an invention for—"Improvements in the manufacture card surfaces employed in carding cotton and wool." *Letters Patent seal*

WALSH.
BRIERLEY.
23rd February 1856.

465. SAMUEL WALSH, and JOHN HENRY BRIERLEY, Smallware Manufacture carrying on business under the firm of Walsh and Brierley, at Stannary Works, Halif and 25, Noble Street, Cheapside, London, for an invention for—"Colouring and gra ing skins of leather on one side and japanning them on the other side." *Provisional protection on*

MESSENGER. 23rd February 1856.

466. THOMAS GOODE MESSENGER, of Loughborough, in the County of Leicester, Plumber, for an invention for—"Improvements in boilers." *Letters Patent sealed.*

JONES. 23rd February 1856.

467. ROBERT BAKER JONES, of Limerick, Gentleman, for an invention for—"Improvements in cooking-apparatus." *Letters Patent sealed.*

SCUDAMORE. 23rd February 1856.

468. JOSEPH SCUDAMORE, of Mitcheldean, in the County of Gloucester, Gentleman, for an invention for—"An improvement in domestic stoves or grates." *Provisional protection only.*

WARBURTON. 23rd February 1856.

469. JAMES WARBURTON, of Addingham, near Otley, in the County of York, for an invention for—"Improvements in machinery for combing wool, cotton, and other fibres." *Letters Patent sealed.*

LOVERIDGE. 23rd February 1856.

470. HENRY LOVERIDGE, of Wolverhampton, for an invention for—"An improvement in feet, hip, and slipper baths, also in bases for shower baths, and basins for washing and other purposes." *Letters Patent sealed.*

SANGSTER. 23rd February 1856.

471. WILLIAM SANGSTER, of 75, Cheapside, in the County of Middlesex, for an invention for—"An improvement in the manufacture of umbrellas and parasols." *Letters Patent sealed.*

SAMUELS. 23rd February 1856.

472. SAMUEL RODGERS SAMUELS, of Nottingham, for an invention for—"Improvements in weaving fabrics." *Letters Patent sealed.*

BROOK. HIRST. 23rd February 1856.

473. CHARLES BROOK the younger, of Meltham Mills, near Huddersfield, in the County of York, Cotton Spinner, and JOSEPH HIRST, of Wilshaw, near Huddersfield aforesaid, Woollen Cloth Manufacturer, for an invention for—"An improvement in finishing yarns of wool or hair, and in the finishing of woven fabrics or piece goods." *Letters Patent sealed.*

NORMANDY. 25th February 1856.

474. LOUIS NORMANDY, of 67, Judd Street, Brunswick Square, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in the mode of constructing and fixing the rails of railways."—*A communication from Louis d'Aubréville, of* 36, *Rue de l'Echiquier, Paris, Civil Engineer.* *Letters Patent sealed.*

HEYWOOD. 25th February 1856.

475. BENNETT JOHNS HEYWOOD, of the City of Dublin, Gentleman, for an invention for—"An improved holder for leads, slate, and other marking materials, applicable also as a case for other articles." *Letters Patent sealed.*

KERSEY. 25th February 1856.

476. FREDERICK KERSEY, of 5, Laurie Terrace, Saint George's Road, Southwark, for an invention for—"An improvement in the manufacture of drain pipes." *Letters Patent sealed.*

MURGATROYD. 25th February 1856.

477. JOSHUA MURGATROYD, of Heaton Norris, in the County of Lancaster, Millwright and Engineer, for an invention for—"Improvements in steam-boilers." *Provisional protection only.*

HAWTHORN. HAWTHORN. 25th February 1856.

478. ROBERT HAWTHORN, and WILLIAM HAWTHORN, both of the Town and County of Newcastle-upon-Tyne, Engineers, for an invention for—"An improved arrangement of steam pump." *Letters Patent sealed.*

ILES. 25th February 1856.

479. CHARLES ILES, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"Improvements in pointing hair pins and in making up hair pins for sale." *Letters Patent sealed.*

CLAUS. 25th February 1856.

480. CHARLES FREDERICK CLAUS, of Latchford, in the County of Chester, Chemist, for an invention for—"Improvements in metal ship building, applicable also to steam-boilers, bridges, and other structures in which metal plates are used." *Letters Patent sealed.*

ARNIER. 25th February 1856.

481. LOUIS ARNIER, of Marseilles, in the Empire of France, for an invention for—"Improvements in condensing hot air and obtaining motive-power therefrom."—*Complete specification.* *Letters Patent sealed.*

PLANQUE. 25th February 1856.

482. CHARLES DAMAS AUGUSTE JOSEPH PLANQUE, Merchant, of Pont St. Maxence (France), for an invention for—"Improvements in the manufacture of fecula." *Letters Patent sealed.*

MARZOLO. 25th February 1856.

483. JOSEPH MARZOLO, of Padua, Organ Builder, now residing in Paris, in the Empire of France, at Mr. Pold's, Sworn Interpreter, Rue de la Bourse, No. 3, for an invention for—"An impressible mechanism reproductive of movements and applicable to weaving and other looms and for industrial purposes."—*Provisional protection only.*

SLAUGHTER. 25th February 1856.

484. EDWARD SLAUGHTER, of the Avonside Ironworks, Bristol, Engineer, for an invention for—"Improvements in the fire-boxes of locomotive and other steam-boilers." *Letters Patent sealed.*

BARROW. 26th February 1856.

485. JOHN BARROW, junior, of the City of Manchester, in the County of Lancaster, Manufacturing Chemist, for an invention for—"Improvements in the manufacture of soda, sulphurous and sulphuric acids, carbonic acid, chlorine, and muriatic acid, and apparatus used therein." *Letters Patent sealed.*

JOULE. 26th February 1856.

486. JAMES PRESCOTT JOULE, of Manchester, in the County of Lancaster, Fellow of the Royal Society, for an invention for—"Certain improvements in steam-engines." *Provisional protection only.*

HENN. HADDON. 26th February 1856.

487. SAMUEL HENN, and THOMAS HADDON, Rivet Manufacturers, trading as Copartners, at Gibb Street Works, Gibb Street, Deritend, Birmingham, in the County of Warwick, for an invention for—"Certain improvements in the mode or modes of forming or making the heads of ornamental nails when such heads are formed of a different metal or metals from the shanks of the same." *Letters Patent sealed.*

COATS. 26th February 1856.

488. GEORGE COATS, of Glasgow, in the County of Lanark, North Britain, Coal Master, for an invention for—"Improvements in partitions or 'brattices' for coal mines and other under-ground works." *Provisional protection only.*

PFNOR. 26th February 1856.

489. FERNAND RODOLPHE PFNOR, Artist, of Darmstadt, Town in the Great Duchy of Hesse-Darmstadt, for an invention for—"Certain improvements in looms for weaving."—*A communication.* *Provisional protection only.*

STEEDMAN. 26th February 1856.

490. JAMES STEEDMAN, of Albany Street, in the County of Middlesex, Piano-forte Maker, for an invention for—"An improvement in piano-fortes." *Letters Patent sealed.*

CORNES. 26th February 1856.

491. JOHN CORNES, of Swan Lane, in the City of London, Engineer, for an invention for—"Improvements in machines for washing and churning." *Letters Patent sealed.*

SCHÄFER. SCHÄFER. 26th February 1856.

492. PHILIPP SCHÄFER, and FREDERICK SCHÄFER, both of Brewer Street, in the County of Middlesex, Manufacturers, for an invention for—"An improved apparatus for damping gummed stamps, tickets, labels, and envelopes." *Letters Patent sealed.*

THOMPSON. 26th February 1856.

493. FRANCIS THOMPSON, of the firm of Parker and Thompson, of Sheffield, in the County of York, Tool and Patent Skate Manufacturer, for an invention for—"An improvement in skates." *Letters Patent sealed.*

BROOMAN. 26th February 1856.

494. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent Agent, for an invention for—"A composition or compositions to be used as a substitute for hops in brewing."—*A communication from A. Boehler, and P. F. Quantin.* *Letters Patent sealed.*

PARRY. 26th February 1856.

495. GEORGE PARRY, of the Ebbw Vale Iron Works, in the County of Monmouth, Furnace Manager, for an invention for—"An improvement in the puddling or refining of iron." *Letters Patent sealed.*

RECKITT. RECKITT. RECKITT. 26th February 1856.

496. ISAAC RECKITT, GEORGE RECKITT, and FRANCIS RECKITT, of Kingston-upon-Hull, being people called Quakers, for an invention for—"Improvements in the manufacture of starch, british gum, and size." *Letters Patent sealed.*

BOUSFIELD. 26th February 1856.

497. GEORGE TOMLINSON BOUSFIELD, of Sussex Place, Loughborough Road, Brixton, in the County of Surrey, for an invention for—"Improvements in power-looms."—*A communication.* *Letters Patent sealed.*

LEGRAND. 27th February 1856.

498. GABRIEL MARIE LEGRAND, of 57, Rue de Bretagne, Paris, in the Empire of France, and of 4, South Street, Finsbury, London, Gentleman, for an invention for—"Certain improvements in graining and checquering skins and woven tissues." *Provisional protection only.*

FONTAINEMOREAU. 27th February 1856.

499. PETER ARMAND LE COMTE DE FONTAINEMOREAU, of 39, Rue de l'Echiquier, Paris, in the Empire of France, and of 4, South Street, Finsbury, London, for an invention for—"A new cicatrising preparation."—*A communication.* *Letters Patent sealed.*

JOHNSON.
27th February 1856.

500. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in the treatment of hard india-rubber for the purpose of rendering the same applicable to the manufacture of pens, tubes, springs, and other similar articles."—*A communication from Charles Vincent Steinlen, of Paris, in the Empire of France, Engineer.* *Provisional protection only.*

JENNINGS.
27th February 1856.

501. WILLIAM HOLDEN JENNINGS, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"An improvement or improvements in the manufacture of the guards and heel-plates of guns;—which improvement or improvements may also be applied to the manufacture of lasso rings and manillas." *Provisional protection only.*

EXALL.
27th February 1856.

502. WILLIAM EXALL, of Reading, in the County of Berks, Civil Engineer, for an invention for—"Improvements in the manufacture and arrangement of sawing machinery." *Letters Patent sealed.*

ALLEN.
27th February 1856.

503. EDWARD ELLIS ALLEN, of 376, Strand, for an invention for—"Improvements in the permanent ways of railways." *Letters Patent sealed.*

INGLIS.
27th February 1856.

504. ALEXANDER INGLIS, of the New River Head, Clerkenwell, for an invention for—"An improvement in the manufacture of flexible bottles or cases for containing colours and other fluids and semi-fluids." *Provisional protection only.*

JOPLING.
27th February 1856.

505. THOMAS TAYLORSON JOPLING, of Bishop's Wearmouth, in the County of Durham, Iron Founder, for an invention for—"An improved construction of water meter." *Letters Patent sealed.*

WALKER.
28th February 1856.

506. FRANCIS PRIME WALKER, of the City of Manchester, in the County of Lancaster, Ironmonger, for an invention for—"Improvements in machinery for cutting hay, straw, and other vegetable substances." *Letters Patent sealed.*

THOMPSON.
WILSON.
28th February 1856.

507. WILLIAM THOMPSON, of Birmingham, in the County of Warwick, Agent, and CHARLES WILSON, of Birmingham aforesaid, Manufacturer, for an invention for—"An improvement or improvements in buttons and in attaching the same to articles of dress." *Provisional protection only.*

SMITH.
28th February 1856.

508. JOHN SMITH, of Derby, Brassfounder, for an invention for—"Improvements in water gauges for steam-boilers;—which improvements are also applicable to cocks used for steam and other purposes." *Letters Patent sealed.*

WESTHORP.
28th February 1856.

509. ISAAC WESTHORP, of the City of London, for an invention for—"Improvements in concentrating milk, and in obtaining concentrated extracts from tea, coffee, and chocolate."—*A communication from Gail Borden, a Citizen of the United States of America.* *Letters Patent sealed.*

MARGESSON.
28th February 1856.

510. PHILIP DAVIES MARGESSON, of Woolwich, for an invention for—"Improvements in the manufacture of iron from iron ores." *Provisional protection only.*

FROW.
28th February 1856.

511. CHARLES FROW, of Wakefield, in the County of York, Engineer and Surveyor, for an invention for—"Improvements in furnaces for steam-boiler and other purposes." *Provisional protection only.*

FOWLER.
GREIG.
28th February 1856.

512. JOHN FOWLER, junior, of Havering, near Romford, in the County of Essex, Engineer, and DAVID GREIG, of Barkingside, also in the County of Essex, Farmer, for an invention for—"Improvements in ploughing and tilling land." *Letters Patent sealed.*

ARCHER.
28th February 1856.

513. ELISHA THOMAS ARCHER, of Cedar Cottage, Wandsworth, in the County of Surrey, for an invention for—"Improvements in envelopes for the transmission of letters or parcels." *Letters Patent sealed.*

DE FONBONNE.
28th February 1856.

514. CHARLES ALEXANDRE DE FONBONNE, of Paris, for an invention for—"Improved apparatus for the manufacture of coke, and for blasting, also for the production and extraction of illuminating and combustible gas, as well as ammoniacal and bituminous matters;—part of such apparatus being applicable to the consumption of smoke." *Letters Patent sealed.*

GROSRENAUD.
23th February 1856.

515. PIERRE LOUIS GROSRENAUD, Engineer, at St. Etienne, Town in the French Empire, for an invention for—"Certain improvements in apparatus or furnaces for melting and puddling metals." *Letters Patent sealed.*

BROOMAN. 28th February 1856.

516. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent Agent, for an invention for—"Improvements in treating bituminous shale, boghead mineral, and other like schistous bodies, in order to obtain various commercial products therefrom."—*A communication from Pierre Gédeon Barry.*
Letters Patent sealed.

LOGAN. 29th February 1856.

517. JAMES LOGAN, of Liverpool, in the County of Lancaster, Engineer, for an invention for—"Improvements in pumps, which improvements are especially applicable to bilge pumps on board ships and steam-vessels." *Provisional protection only.*

BRIERLEY. 29th February 1856.

518. JOHN BRIERLEY, of Blackburn, in the County of Lancaster, Spinner and Manufacturer, for an invention for—"Improvements in machinery or apparatus for twisting and doubling yarns for mule banding and similar purposes."
Letters Patent sealed.

MARKETT. 29th February 1856.

519. JOHN MARKETT, of Hastings, in the County of Sussex, Lieutenant in the Royal Navy, for an invention for—"Improvements in the manufacture of envelopes."
Provisional protection only.

GRAHAM. 29th February 1856.

520. JOHN GRAHAM, of Aughton, in the County of Lancaster, of the firm of Kay and Hilton, Liverpool, Millstone Manufacturer, for an invention for—"Improved machinery for cleaning and dressing rice and other grain." *Letters Patent sealed.*

GREENWOOD. 29th February 1856.

521. JOHN GREENWOOD, of Rawden, near Leeds, in the County of York, for an invention for—"Improvements in heating water for the supply of steam-boilers."
Letters Patent sealed.

CONNER. 29th February 1856.

522. FOSTER CONNER, of Belfast, in the County of Antrim, Ireland, Linen Manufacturer, for an invention for—"Improvements in looms for weaving."
Letters Patent sealed.

BARLOW. 29th February 1856.

523. CHARLES BARLOW, of the Office for Patents, 89, Chancery Lane, London, for an invention for—"Improvements in machinery for cutting cloth and other textile fabrics."—*A communication.* *Letters Patent sealed.*

TURNER. 29th February 1856.

524. WILLIAM ALLEN TURNER, of No. 125, Wood Street, Cheapside, in the City of London, India-Rubber Manufacturer, for an invention for—"Improvements in the manufacture of elastic tubing." *Letters Patent sealed.*

CROZIER. 1st March 1856.

525. WILLIAM CROZIER, of the Borough of Sunderland, in the County of Durham, Civil Engineer, for—"An invention for the better extinction of fire, street watering, and other purposes." *Letters Patent sealed.*

CLARK. 1st March 1856.

526. WILLIAM CLARK, of Upper Terrace, Islington, in the County of Middlesex, Engineer, for an invention for—"Improvements in cutting or shaping trousers."
Provisional protection only.

MILLER. 1st March 1856.

527. ROBERT FREDERICK MILLER, of Hammersmith, Coach Builder, for an invention for—"An improved omnibus." *Provisional protection only.*

READING. 1st March 1856.

528. JOHN READING, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"New or improved fastenings for attaching watch-keys, seals, watches, lockets, articles of jewellery, and ornamental articles of dress in general, to chains, and for securing the catches of brooches." *Letters Patent sealed.*

DEWAR. 1st March 1856.

529. HENRY ANDREW DEWAR, of the City and County of Aberdeen, North Britain, Surgeon Dentist, for an invention for—"Improvements in conveying or transmitting motion for effecting mechanical operations." *Letters Patent sealed.*

JOHNSON. 1st March 1856.

530. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in looms for weaving."—*A communication from Gustave Bornèque, of Bavillers, in the Empire of France, Manufacturer.* *Letters Patent sealed.*

HODGE. 1st March 1856.

531. PAUL RAPSEY HODGE, of No. 4, Albion Grove, Islington, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in the method of lighting domestic fires." *Letters Patent sealed.*

UYTBORCK. 1st March 1856.

532. LOUIS UYTBORCK, of 74, Montagne de la Cour, in the City of Brussels, Kingdom of Belgium, for an invention for—"An improvement in locomotive and other tubular boilers in which steam is generated." *Provisional protection only.*

FRANCIS. 1st March 1856.

533. ALFRED FRANCIS, of Encomb Terrace, Wandsworth Road, Cement Manufacturer, for an invention for—"Certain improvements in the manufacture of a composition applicable as a cement or plaster, and to other purposes."—*Letters Patent sealed.*

KASELOWSKY. 1st March 1856.

534. FERDINAND KASELOWSKY, of Bielefeld, in the Kingdom of Prussia, for an invention for—"Improvements in winding yarns and thread of flax and hemp in spinning and twisting machines." *Letters Patent sealed.*

DU MOTAY. FONTAINE. 1st March 1856.

535. CYPRIEN MARIE TESSIÉ DU MOTAY, of No. 24, Rue Fontaine St. George, Paris, Chemist, and JEAN JACQUES FONTAINE, of No. 19, Rue Paradis Poissonnière, Paris, Merchant, for an invention for—"Improvements in treating cast iron." *Letters Patent sealed.*

CHAPMAN. TEAGER. 1st March 1856.

536. WILLIAM CHAPMAN, Chemist, and JOHN HENRY TEAGER, Engineer, both of Ipswich, for an invention for—"Improvements in apparatus for cooking animal and vegetable substances, and for heating steam closets." *Provisional protection only.*

RUALEM. 1st March 1856.

537. FRANÇOIS RUALEM, of 29, Rue de Paris, à Belleville, France, Milkman, for an invention for—"An improvement in the manufacture of fuel."—*Letters Patent sealed.*

MAYNARD. 3rd March 1856.

538. ROBERT MAYNARD, Engineer, of Whittlesford, in the County of Cambridge, for an invention for—"Improvements in machinery for cutting and separating agricultural produce." *Letters Patent sealed.*

OPPENHEIMER. 3rd March 1856.

539. ADOLPHUS OPPENHEIMER, of Manchester, in the County of Lancaster, Manufacturer, for an invention for—"Certain improvements in machinery or apparatus for stretching or distending velvets and other piled goods or fabrics for the purpose of cutting the pile of such goods." *Letters Patent sealed.*

WALLACE. 3rd March 1856.

540. JAMES WALLACE, junior, of Glasgow, in the County of Lanark, North Britain, Manufacturer, for an invention for—"Improvements in bleaching, washing, cleansing, and drying textile fabrics and materials." *Letters Patent sealed.*

HOMAN. 3rd March 1856.

541. JULIUS HOMAN, of Milk Street, Cheapside, in the City of London, Manufacturing Outfitter, for an invention for—"An improved mode of driving sewing-machines." *Letters Patent sealed.*

ASPINALL. 3rd March 1856.

542. JOHN ASPINALL, of Limehouse, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in machinery for curing sugar or extracting moisture therefrom, applicable to separating liquids from solids."—*Letters Patent sealed.*

HODGES. 3rd March 1856.

543. JOHN EDWARD HODGES, of Leicester, in the County of Leicester, Manufacturer, for an invention for—"Improvements in machinery for the manufacture of looped and textile fabrics." *Letters Patent sealed.*

VENABLES. 3rd March 1856.

544. JOHN VENABLES, of Burslem, in the County of Stafford, China and Earthenware Manufacturer, for an invention for—"Improvements in ornamenting articles made of clay and other similar plastic materials." *Letters Patent sealed.*

HODGES. 3rd March 1856.

545. JOHN EDWARD HODGES, of Leicester, in the County of Leicester, Manufacturer, for an invention for—"Improvements in machinery for the manufacture of looped fabrics." *Letters Patent sealed.*

POITIERS. 4th March 1856.

546. EDWARD POITIERS, of 12, Malden Terrace, Haverstock Hill, London, in the County of Middlesex, at present in Manchester, Gentleman, for an invention for—"The application of a new material or materials for the manufacture of brushes and for other purposes, and for improvements in the manufacture of street scavengers' and similar brooms or brushes." *Provisional protection only.*

CODDÉ. 4th March 1856.

547. LOUIS CODDÉ, of 39, Rue de l'Echiquier, Paris, in the Empire of France, and of 4, South Street, Finsbury, London, Doctor of Medicine, for an invention for—"A system of submarine communication." *Provisional protection only.*

BROOMAN. 4th March 1856.

548. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent Agent, for an invention for—"An improved fabric suitable for ladies' garments." —*A communication from Marguerite Constant, of Paris.* *Letters Patent sealed.*

LAMBERT. 4th March 1856.

549. THOMAS LAMBERT, of the New Cut, Lambeth, for an invention for—"Improvements in apparatus for regulating the drawing off of water and other fluids." *Letters Patent sealed.*

ROSENBERG.
4th March 1856.

550. CHARLES THOMAS ROSENBERG, of 12, Clarence Terrace, Camberwell New Road, for an invention for—" Improvements in ornamenting china, glass, and other surfaces, when transferring printed impressions." *Letters Patent sealed.*

SAMUELSON.
4th March 1856.

551. MARTIN SAMUELSON, of Scott Street, Hull, for an invention for—" Improvements in screw propellers." *Letters Patent sealed.*

PLATT.
4th March 1856.

552. JAMES PLATT, of Oldham, in the County of Lancaster, Mechanical Engineer, for an invention for—" Improvements in machinery for spinning, doubling, and winding cotton and other fibrous substances."—*A communication.*
Provisional protection only.

LODGE.
OGDEN.
LODGE.
4th March 1856.

553. GEORGE LODGE the elder, Engineer, JOHN OGDEN, Engineer, and GEORGE LODGE the younger, Manufacturer, all of Leeds, in the County of York, for an invention for—" Improved apparatus for effecting the consumption of smoke in steam-boiler and other furnaces." *Letters Patent sealed; no specification filed.*

CLEGG.
KAY.
5th March 1856.

554. SAMUEL CLEGG, and JOHN KAY, of Padiham, near Burnley, in the County of Lancaster, Warpers, for an invention for—" Improvements in machinery or apparatus for warping yarns." *Letters Patent sealed.*

KAY.
5th March 1856.

555. RICHARD DUGDALE KAY, of Accrington, in the County of Lancaster, Manufacturer, for an invention for—" Improvements in the manufacture of fabrics from fibrous materials." *Letters Patent sealed.*

BILLINTON.
5th March 1856.

556. WILLIAM BILLINTON, of Great George Street, Westminster, Civil Engineer, for an invention for—" An improved method of treating wooden railway sleepers."
Letters Patent sealed; specification filed 1st October, by Order.

LAST.
5th March 1856.

557. SAMUEL LAST, of Oxford Street, in the County of Middlesex, Trunk Manufacturer, for an invention for—" Improvements in trunks or portmanteaus and an improved lock for the same." *Letters Patent sealed.*

MORGAN.
VICKERMAN.
5th March 1856.

558. CHARLES MORGAN, of Crow Aman, near Llanelly, in the County of Carmarthen, Gentleman, and CHARLES RANKEN VICKERMAN, of Kilgetty, near Saundersfoot, in the County of Pembroke, Gentleman, for an invention for—" An improved preparation of fuel and the application of the same to steam-boiler purposes."
Letters Patent sealed.

GREEN.
5th March 1856.

559. WILLIAM GREEN, of York Street, City Road, in the County of Middlesex, Engineer, for an invention for—" Improvements in ornamenting and waterproofing fabrics." *Provisional protection only.*

SHARP.
FORSYTH.
6th March 1856.

560. THOMAS BEATT SHARP, of the Atlas Works, in the City of Manchester, Engineer, and THOMAS FORSYTH, of the same place, Engineer, for an invention for—" Improvements in coupling railway rolling stock." *Provisional protection only.*

JACKSON.
MYERS.
6th March 1856.

561. LUKE DUNCAN JACKSON, Engineer, No. 3, Alfred Place, Alfred Road, County of Middlesex, HENRY MYERS, Medical Practitioner, 51, Alfred Road, Paddington, County of Middlesex, for an invention for—"The combining air and water as a power." *Provisional protection only.*

POCHIN.
6th March 1856.

562. HENRY DAVIS POCHIN, of Salford, in the County of Lancaster, Manufacturing Chemist, for an invention for—" Improvements in the manufacture of aluminous and siliceous compounds." *Letters Patent sealed.*

PHILP.
6th March 1856.

563. RICHARD PHILP, of Suffolk Parade, Cheltenham, in the County of Gloucestershire, Civil Engineer, for an invention for—" Improvements in paddle-wheels for propelling vessels in water." *Provisional protection only.*

TISDALL.
6th March 1856.

564. THOMAS TISDALL, of Reynoldstown House, in the County of Dublin, Esquire, for an invention for—" Improvements in machinery or apparatus for propelling steam-vessels." *Provisional protection only.*

MORRISON.
6th March 1856.

565. ROBERT MORRISON, of the Town and County of Newcastle-upon-Tyne, Engineer, for an invention for—" Improvements in pile-driving machinery."
Letters Patent sealed.

BROWNE.
6th March 1856.

566. BENJAMIN BROWNE, of Stockwell, in the County of Surrey, for an invention for—" Certain improvements in the construction of spindles for locks and latches, and in the mode of connecting the same thereto and to their respective knobs."
Provisional protection only.

NEWBURGER. 6th March 1856.

567. AUGUSTE NEWBURGER, of 39, Rue de l'Echiquier, Paris, in the Empire of France, and of 4, South Street, Finsbury, London, for an invention for—"Extraction of oil from a vegetable substance not hitherto so used." *Letters Patent sealed.*

SCOTT. 6th March 1856.

568. JOHN WILLIAM SCOTT, of the City of Worcester, Manufacturer of Finch's Patent Solid Leather Button, for an invention for—"An apparatus for fastening or securing buttons, which may itself be used as a stud or button."—*Letters Patent sealed.*

BROOMAN. 6th March 1856.

569. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent Agent, for an invention for—"An improved method of creating a vacuum, together with certain arrangements of apparatus for preserving substances liable to injury or corruption from prolonged exposure to the atmosphere."—*A communication from Dr. Giraud.* *Letters Patent sealed; no specification filed.*

DOWNIE. 7th March 1856.

570. JOHN DOWNIE, of Glasgow, in the County of Lanark, North Britain, Engineer, for an invention for—"Improvements in moulding or shaping metals and other materials." *Letters Patent sealed.*

HÄHNER. 7th March 1856.

571. The CHEVALIER GUILLAUME HÄHNER, of Leghorn, in Tuscany, and of 4, South Street, Finsbury, London, for an invention for—"Certain improvements in the treatment of ores."—*A communication.* *Letters Patent sealed.*

BROWN. BROWN. 7th March 1856.

572. DAVID BROWN, of Smethwick, in the County of Stafford, Machinist, and WILLIAM BROWN, of Smethwick aforesaid, Roll Turner, for an invention for—"An improvement or improvements in rolling railway switches from railway bars, and in rolling taper ends on other bars requiring the same." *Letters Patent sealed.*

HOLMES. 7th March 1856.

573. FREDERICK HALE HOLMES, of London, in the Kingdom of Great Britain, Analytical Chemist, for an invention for—"Improvements in machines known under the name of magneto-electric machines." *Letters Patent sealed.*

COOK. 8th March 1856.

574. THOMAS COOK, of Addiscombe, in the County of Surrey, Lieutenant in Her Majesty's Royal Navy, for an invention for—"Improvements in portable bedsteads." *Letters Patent sealed.*

YOUNG. 8th March 1856.

575. HENRY B. YOUNG, of Barnstaple, for an invention for—"Certain improvements in steam-engines." *Letters Patent sealed.*

COOKE. 8th March 1856.

576. HENRY COOKE, of Manchester, in the County of Lancaster, Cotton Spinner, for an invention for—"Improved machinery or apparatus for dyeing and dressing yarns or threads." *Letters Patent sealed.*

ROBERT. 8th March 1856.

577. JEAN JULES ROBERT, Architect, of 18, Portugal Street, Lincoln's Inn Fields, in the County of Middlesex, for an invention for—"A process which extracts the greasy particles contained in the waters after the cleansing of wools, by the means of sulphate of zinc and arsenious acid." *Provisional protection only.*

STEWART. 8th March 1856.

578. DAVID YOOLOW STEWART, of Glasgow, in the County of Lanark, North Britain, Ironfounder, for an invention for—"Improvements in moulding or shaping metals." *Letters Patent sealed.*

HANNAH. 10th March 1856.

579. ROBERT HANNAH, of Glasgow, in the County of Lanark, North Britain, Pottery Manager, for an invention for—"Improvements in pottery kilns." *Letters Patent sealed.*

CHABLIN. HENNIQUE. 10th March 1856.

580. LÉON CHABLIN, and ANTOINE HENNIQUE, of 39, Rue de l'Echiquier, Paris, in the Empire of France, and of 4, South Street, Finsbury, London, for an invention for—"A new mode of ornamenting ceramic and vitreous products." *Provisional protection only.*

NOLET. 10th March 1856.

581. PIERRE DENIS NOLET, of Rue de la Lune, Paris, Practical Engineer, for an invention for—"Improvements in pen holders." *Letters Patent sealed.*

BÉRARD. 10th March 1856.

582. PIERRE HIPPOLYTE GUSTAVE BÉRARD, Artificial Flower Manufacturer, of Paris, in the Empire of France, for an invention for—"Improvements in manufacturing artificial flowers and foliage." *Provisional protection only.*

BARTLEET. 10th March 1856.

583. ROBERT SMITH BARTLEET, of Redditch, in the County of Worcester, Manufacturer, for an invention for—"Improvements in cases or holders for machine and other sewing needles." *Provisional protection only.*

MILLS.
10th March 1856.

584. JAMES MILLS, of Oldham, in the County of Lancaster, Machinist, for an invention for—"An improvement in spindles used in certain machines for preparing, spinning, and doubling cotton and other fibrous substances."—*Letters Patent sealed.*

EMERY.
10th March 1856.

585. FRANCIS JOSEPH EMERY, of Cobridge, in the County of Stafford, Gentleman, for an invention for—"An improved means of arresting the descent of cages or corves in the shafts of mines;—which may also be applied to stopping the fall of weights." *Provisional protection only.*

DAVY.
MILNES.
10th March 1856.

586. JOSEPH DAVY, of Manningham, near Bradford, Machine Maker, and JOHN MILNES, of Clayton West, near Huddersfield, both in the County of York, for an invention for—"Improvements in looms for weaving plaids, plain weaving and flounces, or other ground work." *Letters Patent sealed.*

TOLHAUSEN.
11th March 1856.

587. ALEXANDRE TOLHAUSEN, of No. 7, Duke Street, Adelphi, London, County of Middlesex, Sworn Interpreter at the Imperial Court of Paris, for an invention for—"Certain improvements applicable to bakers' ovens."—*A communication from Hiram Berdan, of Flatland, United States of America.* *Letters Patent sealed.*

COLLINS.
11th March 1856.

588. JOHN COLLINS, Architect, of Birmingham, for an invention for—"A machine for pulverizing, crushing, pressing, and cleaning land." *Provisional protection only.*

GREENE.
11th March 1856.

589. HENRY GREENE, of Windlesham, near Bagshot, in the County of Surrey, Civil Engineer, for an invention for—"Improvements in locomotive engines and carriages running on railways."—*A communication.* *Provisional protection only.*

MAGGS.
11th March 1856.

590. OLIVER MAGGS, of Bourton Foundry, Dorset, for an invention for—"Improvements in the straw-shaking apparatus of thrashing machines." *Letters Patent sealed.*

PETITPIERRE.
11th March 1856.

591. HENRI PETITPIERRE, of No. 15, Avenue de St. Ouen, Batignolles, near Paris, Engineer, for an invention for—"Improvements in sawing or cutting stone." *Letters Patent sealed.*

FOWLER.
11th March 1856.

592. JOHN FOWLER, junior, of Havering, near Romford, in the County of Essex, for an invention for—"An improvement in the manufacture of bricks and tiles." *Letters Patent sealed.*

HORNER.
BAGLEY.
12th March 1856.

593. HENRY HORNER, and RICHARD BAGLEY, both of Sheffield, in the County of York, for an invention for—"Improvements in buffers and draw and bearing springs for railway and other purposes." *Letters Patent sealed.*

SPENCER.
12th March 1856.

594. GEORGE SPENCER, of No. 6, Cannon Street, Engineer, London, for an invention for—"Improvements in supporting the rails of railways." *Letters Patent sealed.*

STANLEY.
BELLAMY.
BOOTH.
12th March 1856.

595. JOHN MARTIN STANLEY, GEORGE BELLAMY, and WILLIAM BOOTH, trading under the style or firm of "Stanley, Bellamy, and Company," of Sheffield, in the County of York, General Ironfounders, for an invention for—"Improvements in the manufacture of rolls for rolling steel, copper, lead, or other malleable material." *Provisional protection only.*

PALMER.
12th March 1856.

596. CHRISTOPHER RICHARD NORRIS PALMER, of the Strand, in the County of Middlesex, Telegraph Engineer, for an invention for—"A new telegraph and improved telegraph or signal apparatus, parts of the invention, apparatus, or manufacture, being applicable to other purposes." *Provisional protection only.*

VIGARS.
12th March 1856.

597. JOHN VIGARS, of Marytavy, near Tavistock, in the County of Devon, for an invention for—"Improvements in machinery for lifting in mines, also applicable to other purposes." *Provisional protection only.*

PONTIFEX.
12th March 1856.

598. EDMUND ALFRED PONTIFEX, of the firm of Pontifex and Wood, of Shoe Lane, in the City of London, Chemical Manufacturers, for an invention for—"Improvements in the manufacture of tartaric and citric acids, and tartrate of potash and soda." *Letters Patent sealed.*

CHALANGE.
12th March 1856.

599. LIPHAR MATHURIN CHALANGE, Miller, of Nogent-sur-Seine, Town in the French Empire, for an invention for—"Certain improvements in corn mills." *Provisional protection only.*

CORBITT. SHAW. 12th March 1856.	**600.** WILLIAM CORBITT, and GEORGE SHAW, of Masbro' Works, Rotherham, in the County of York, Engineers and Ironfounders, for an invention for—"Improvements in buffer, bearing, and draw springs for railway and other carriages." *Provisional protection only.*
EDWARDS. 12th March 1856.	**601.** FREDERIC HOWORTH EDWARDS, of the Town and County of Newcastle-upon-Tyne, Engineer, for an invention for—"Improvements in railway breaks." *Provisional protection only.*
HAYES. 12th March 1856.	**602.** WILLIAM BRAMWELL HAYES, of Manchester, in the County of Lancaster, Manufacturer, for an invention for—"Certain improvements in looms for weaving." *Letters Patent sealed.*
RYDER. 12th March 1856.	**603.** JOHN NORTHCOTE RYDER, of Thames Street, in the City of London, for an invention for—"An improvement in slide valves of steam-engines." *Letters Patent sealed.*
MURRAY. 12th March 1856.	**604.** GEORGE MURRAY, of Whitehill Point, in the County of Northumberland, Engineer, for an invention for—"An improvement in the construction and manufacture of wheels for locomotive engines, waggons, and other carriages to be used on railways." *Letters Patent sealed.*
TAYLOR. 12th March 1856.	**605.** THOMAS W. TAYLOR, of Cannelton, in the County of Perry, in the State of Indiana, one of the States in the United States of North America, for an invention for—"An improvement in flying or roving frames." *Provisional protection only.*
DUCKWORTH. MARSDEN. 13th March 1856.	**606.** CHRISTOPHER DUCKWORTH, and THOMAS MARSDEN, both of the City of Manchester, Manufacturers, for an invention for—"The manufacture of a new or improved woven fabric." *Letters Patent sealed.*
BÉRARD. 13th March 1856.	**607.** PIERRE HIPPOLYTE GUSTAVE BÉRARD, Merchant, of Paris, in the Empire of France, for an invention for—"Improvements in the manufacture of waterproof fabrics, which improvements may also be applied for rendering other substances waterproof." *Provisional protection only.*
STURGE. STURGE. 13th March 1856.	**608.** JOSEPH STURGE, of Kensington, in the County of Surrey, and ALFRED STURGE, of Northfleet, in the County of Kent, Engineers, for an invention for—"Improvements in rotary fluid meters." *Letters Patent sealed.*
REES. 13th March 1856.	**609.** GEORGE REES, of Clerkenwell, in the County of Middlesex, Painted and Stained Glass Manufacturer, for an invention for—"An improved method of producing figured or ornamental surfaces on glass." *Letters Patent sealed.*
DIXON. 13th March 1856.	**610.** ISAAC DIXON, of Liverpool, in the County of Lancaster, Builder, for an invention for—"An improved propeller for steam-ships and other vessels." *Letters Patent sealed.*
DE CHÂTEAUNEUF. 13th March 1856.	**611.** GRAND DE CHÂTEAUNEUF, of 39, Rue de l'Echiquier, Paris, in the Empire of France, and of South Street, Finsbury, London, Civil Engineer, for an invention for—"A hydro-pneumo-metric gas meter." *Letters Patent sealed.*
PORTER. 13th March 1856.	**612.** THOMAS PORTER, of Manchester, in the County of Lancaster, Merchant, for an invention for—"Improvements in looms for weaving carpets, coach lace, velvets and other piled fabrics."—*A communication.* *Letters Patent sealed.*
MURDOCH. 13th March 1856.	**613.** JAMES MURDOCH, of 7, Staple Inn, in the County of Middlesex, Patent Agent, for an invention for—"An improved mode of manufacturing cut velvets and other similar fabrics."—*A communication.* *Letters Patent sealed.*
M'CARTON. 13th March 1856.	**614.** WILLIAM M'CARTON, of No. 21, Clarence Place, in the City of Dublin, Carpenter, for an invention for—"Improvements in the drying of corn or grain for grinding and preserving, and apparatus for performing same, and is applicable to drying of other seeds."—*Complete specification.* *Protection for six months only.*
PIMONT. 14th March 1856.	**615.** PROSPER PIMONT, of Rouen, in France, Manufacturer, for an invention for—"A certain process of restoring metallic spoiled pens." *Letters Patent sealed.*
GARDISSAL. 14th March 1856.	**616.** CHARLES DURAND GARDISSAL, of 10, Bedford Street, Strand, London, Patent Agent, and of 29, Boulevart Saint Martin, Paris, for an invention for—"An improvement in capstans."—*A communication.* *Letters Patent sealed.*

GARDISSAL. 14th March 1856.

617. CHARLES DURAND GARDISSAL, of 10, Bedford Street, Strand, London, Patent Agent, and of 29, Boulevart Saint Martin, Paris, France, for an invention for—"An improvement in ships' windlasses."—*A communication.* *Letters Patent sealed.*

MARCUS. 14th March 1856.

618. PHILLIP MARCUS, of Well Street, in the County of Middlesex, Outfitter, for an invention for—"An apparatus for working the damper in steam-engine furnaces."—*A communication from John Taylor, of New Jersey.* *Letters Patent sealed.*

YATES. 14th March 1856.

619. WILLIAM YATES, of Bromley, in the County of Middlesex, Engineer, for an invention for—"An improvement in furnaces." *Letters Patent sealed.*

CLAY. 14th March 1856.

620. WILLIAM CLAY, of Liverpool, in the County of Lancaster, Iron Merchant, for an invention for—"Improvements in the manufacture of the points or switches and crossings of railways." *Provisional protection only.*

NEWTON. 14th March 1856.

621. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improved machinery for separating gold and other metals from their ores."—*A communication.* *Letters Patent sealed.*

COATES. 15th March 1856.

622. CHARLES COATES, of Sunnyside, near Rawtenstall, in the County of Lancaster, Manager, for an invention for—"Improvements in apparatus for communicating motion to machinery used in bleaching, printing, dyeing, and finishing fabrics." *Letters Patent sealed.*

RICHARD. 15th March 1856.

623. LOUIS JOSEPH RICHARD, of Tirlemont (Belgium), Sugar Refiner, for an invention for—"Improvements in sugar manufacture." *Letters Patent sealed.*

HAWKINS. 15th March 1856.

624. JOSEPH BENJAMIN HAWKINS, of Reading, in the County of Berkshire, Cabinet Maker, for an invention for—"Improvements in couches or sofas, parts of which are applicable to other like furniture." *Provisional protection only.*

WRIGHT. 15th March 1856.

625. EDWIN THOMAS WRIGHT, of Wolverhampton, in the County of Stafford, Engineer, for an invention for—"An improvement or improvements in the manufacture of steam-engine boilers, iron ships and boats, and such other vessels and things as are or may be made by rivetting together metal plates." *Letters Patent sealed.*

WINFIELD. SIMMS. LLOYD. 15th March 1856.

626. ROBERT WALTER WINFIELD, of Birmingham, in the County of Warwick, Merchant and Manufacturer, and JOHN SIMMS, of Fleet Street, in the City of London, Commercial Agent, and THOMAS LLOYD, of King's Norton, in the County of Worcester, Brassfounder, for an invention for—"Improvements in the construction and ornamentation of metallic bedsteads and other articles of metallic furniture." *Letters Patent sealed.*

RICE. RICE. 15th March 1856.

627. JAMES RICE, of Foley Place, Surgeon, and WILLIAM RICE, Lieutenant H.E.I.C.S., for an invention for—"Improvements in breech-loading repeating guns and rifles." *Letters Patent sealed.*

DUMAS. 15th March 1856.

628. JOSEPH DUMAS, of Marseilles, in the Empire of France, at present residing at No. 8, Windsor Terrace, City Road, in the County of Middlesex, for an invention for—"An improved description of tile."—*A communication, and recently patented in France, in the name of Frederic Arnaud.* *Letters Patent sealed.*

OLDHAM. 15th March 1856.

629. WILLIAM OLDHAM, of Southam, in the County of Warwick, for an invention for—"Improvements in the manufacture of cement." *Provisional protection only.*

BESSEMER. 15th March 1856.

630. HENRY BESSEMER, of Queen Street Place, New Cannon Street, in the City of London, for an invention for—"Improvements in the manufacture of iron and steel." *Letters Patent sealed.*

RANDOLPH. ELDER. 15th March 1856.

631. CHARLES RANDOLPH, and JOHN ELDER, both of the City of Glasgow, in the County of Lanark, Engineers, for an invention for—"Improvements in marine engines." *Letters Patent sealed.*

PEGG. 15th March 1856.

632. JOSEPH PEGG, of Monk Wearmouth, in the County of Durham, Ship Owner, for an invention for—"Improved steering apparatus." *Letters Patent sealed.*

MITCHELL. 17th March 1856.

633. JOHN MITCHELL, of Dunning's Alley, Bishopsgate Street Without, for an invention for—"Improvements in apparatus for washing and amalgamating ores and other matters." *Letters Patent sealed.*

HILLS. 17th March 1856.

634. GEORGE HILLS, of Bellmont Hill, Lee, in the County of Kent, for an invention for—"Improvements in treating fatty and oily substances so as to obtain stearine and oleine in separate states." *Letters Patent sealed.*

NORMAND. 17th March 1856.

635. CHARLES BENJAMIN NORMAND, of Havre, in the Empire of France, Ship Builder, for an invention for—"Improvements in the treatment and employment of steam in steam-engines, and in apparatus for effecting the condensation of steam." *Letters Patent sealed.*

AMOS. 17th March 1856.

636. JAMES AMOS, of Frindsbury, in the County of Kent, for an invention for—"An improved flour-dressing machine." *Provisional protection only.*

PALMER. 17th March 1856.

637. THOMAS PALMER, of Tavistock, in the County of Devon, Currier, for an invention for—"Pumps with a new or improved box and valve."—*Letters Patent sealed.*

THOMSON. 17th March 1856.

638. ROBERT THOMSON, of Glasgow, in the County of Lanark, North Britain, Manager, for an invention for—"Improvements in weaving." *Letters Patent sealed.*

GRAHAM. 17th March 1856.

639. WILLIAM GRAHAM, of Glasgow, in the County of Lanark, North Britain, Master Mariner, for an invention for—"Improvements in marine compasses and in adjusting the same on board ship." *Letters Patent sealed.*

FONTAINEMOREAU. 18th March 1856.

640. PETER ARMAND LE COMTE DE FONTAINEMOREAU, of 39, Rue de l'Echiquier, Paris, in the Empire of France, and of 4, South Street, Finsbury, London, for an invention for—"Improvements in churns."—*A communication. Letters Patent sealed.*

DE PRADES. 18th March 1856.

641. PETER DE PRADES, of Camden New Town, in the County of Middlesex, Gentleman, for an invention for—"Improvements in wheelbarrows." *Provisional protection only.*

BIRD. ROSE. 18th March 1856.

642. THOMAS BIRD, of Manchester, in the County of Lancaster, Engineer, and THOMAS ROSE, of the same place, Engineer, for an invention for—"Certain improvements in castors." *Letters Patent sealed.*

ROWLEY. HADLEY. 18th March 1856.

643. EDWARD ROWLEY, of West Bromwich, in the County of Stafford, Iron Roller, and JOHN HADLEY, of Birmingham, in the County of Warwick, Engineer, for an invention for—"A new or improved method of shaping iron." *Letters Patent sealed.*

PETTITT. 18th March 1856.

644. EDWIN PETTITT, of Manchester, in the County of Lancaster, for an invention for—"Improvements in machinery for preparing cotton and other fibrous substances." *Provisional protection only.*

DRURY. 18th March 1856.

645. JOHN DRURY, of Paddock, near Huddersfield, in the County of York, Machine Maker, for an invention for—"Improvements in steam-boilers for preventing explosion thereof." *Letters Patent sealed.*

MAW. 18th March 1856.

646. ARTHUR MAW, of Broseley, in the County of Salop, Manufacturer of Encaustic Tiles, for an invention for—"Improved means of ornamenting the surfaces of woven, knitted, or felted fabrics, such as cloths, stuffs, ribbons, and other fabrics, or of parchment, vellum, leather, or other animal tissues, and rendering such fabrics or tissues applicable to various purposes." *Provisional protection only.*

BARBER. 18th March 1856.

647. HARBY BARBER, of Belgrave, near Leicester, Manufacturer of Hosiery, for an invention for—"Improvements in the manufacture of hosiery goods." *Provisional protection only.*

SMITH. 18th March 1856.

648. WILLIAM SMITH, of 10, Salisbury Street, Adelphi, for an invention for—"Improvements in the means of economizing heat in locomotive engines."—*A communication from Auguste Quanonne, of Tournay, Belgium. Provisional protection only.*

APPLETON. 18th March 1856.

649. PETER APPLETON, of 7, London Street, New Swindon, in the County of Wilts, for an invention for—"Improvements in knives for peeling apples, potatoes, and other fruits and roots." *Letters Patent sealed.*

OCHS. 19th March 1856.

650. LAZARE OCHS, of Saint Josse ten Noode, in the Kingdom of Belgium, Manufacturer, for an invention for—"Improvements in the manufacture of certain kinds of paper from the refuse of tanned leather."—*A communication.—Complete specification. Letters Patent sealed.*

MORGAN. 19th March 1856.

651. RICHARD MORGAN, of Acton, in the County of Middlesex, Gentleman, for an invention for—"A cellular purse." *Letters Patent sealed.*

RICHARDSON. JAFFREYS. 19th March 1856.

652. THOMAS RICHARDSON, of Hartlepool, in the County of Durham, Engineer, and GEORGE WILLIAM JAFFREYS, Engineer, of Hartlepool, in the County of Durham, for an invention for—"Improvements in marine steam-engines."—*Letters Patent sealed*

LACY. 19th March 1856.

653. AUGUSTUS DACRE LACY, of Hall House, Knayton, near Thirsk, Yorkshire, Gentleman, for an invention for—"Improvements in certain apparatus for taking up and delivering mail bags and other packages from a railway carriage or carriages while the train is in motion." *Letters Patent sealed*

COHEN. 19th March 1856.

654. BARNET SOLOMON COHEN, of 9, Magdalen Row, Great Prescot Street, in the County of Middlesex, for an invention for—"An improvement in the manufacture of chimney-pieces, shop fronts, pillars, pilasters, slabs, vases, and ornamental parts of buildings." *Provisional protection only*

STIRLING. 19th March 1856.

655. JOHN DAVIE MORRIES STIRLING, Esquire, of Blackgrange, Clackmannanshire, N.B., for an invention for—"Improvements in steel and its manufacture." *Letters Patent sealed; no specification filed*

COHEN. 19th March 1856.

656. BARNET SOLOMON COHEN, of 9, Magdalen Row, Great Prescot Street, in the County of Middlesex, for an invention for—"An improvement in the manufacture of pen-holders, handles, knobs, finger-plates, and umbrella and parasol furniture." *Provisional protection only*

STOTT. 19th March 1856.

657. ELY SMITH STOTT, of Halifax, Woollen Manufacturer, for an invention for—"Improvements in the manufacture of mohair, alpaca, and worsted pile fabrics." *Letters Patent sealed*

COPE. 19th March 1856.

658. DAVID COPE, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"A new or improved manufacture of spoons, forks, and ladles." *Letters Patent sealed*

NEWTON. 19th March 1856.

659. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improved means for separating substances of different specific gravities."—*A communication.* *Letters Patent sealed*

HALL. 19th March 1856.

660. JOHN BISHOP HALL, of the City of New York, in the United States of North America, for an invention for—"Improvements in preparing and treating pictures." *Letters Patent sealed*

PARSONS. 19th March 1856.

661. CHARLES FREDERICK PARSONS, of Lambeth, in the County of Surrey, Engineer, for an invention for—"Machinery to be employed in the bleaching and dyeing of cloths, yarns, and fabrics." *Letters Patent sealed*

BROOMAN. 19th March 1856.

662. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent Agent, for an invention for—"Improvements in balance slide valves."—*A communication.* *Letters Patent sealed*

LEIGHTON. 20th March 1856.

663. JOHN LEIGHTON, of No. 40, Brewer Street, Golden Square, in the County of Middlesex, for an invention for—"A luminous fireplace and self supplying smoke consumer." *Provisional protection only*

FONTAINEMOREAU. 20th March 1856.

664. PETER ARMAND LE COMTE DE FONTAINEMOREAU, of 4, South Street, Finsbury, London, and 39, Rue de l'Echiquier, Paris, in the Empire of France, Patent Agent, for an invention for—"Improvements in looms for weaving."—*A communication.* *Letters Patent sealed*

WADSWORTH. 20th March 1856.

665. JAMES WADSWORTH, of Hazelgrove, near Stockport, in the County of Chester, Machine Maker, for an invention for—"Improvements in the ventilation of mines or in the means of removing noxious gases therefrom, and in machinery or apparatus to be used for that purpose." *Provisional protection only*

BURTON. PYE. 20th March 1856.

666. JOHN WATSON BURTON, of Eye, in the County of Suffolk, and GEORGE PYE, of Ipswich, in the same County, Flax Manufacturers, for an invention for—"Improvements in treating flax, hemp, and other fibrous matters requiring like treatment." *Letters Patent sealed*

SCHAEFFER. 20th March 1856.

667. WILLIAM CHARLES THEODORE SCHAEFFER, of Bradford, in the County of York, for an invention for—"An improvement in treating soap suds and wash waters." *Letters Patent sealed*

STIRLING. 20th March 1856.

668. JOHN DAVIE MORRIES STIRLING, Esquire, of Blackgrange, Clackmannanshire, N.B., for an invention for—"Improvements in mounting heavy ordnance for naval purposes."—*A communication from Monsieur Delvigne, of Paris.*
Provisional protection only.

TRUEMAN. 20th March 1856.

669. JOHN TRUEMAN, of 34, Castle Street, Belfast, Ireland, Baker and Confectioner, for an invention for—"Improvements in ovens for baking." *Letters Patent sealed.*

DRUMMOND. 20th March 1856.

670. WILLIAM DRUMMOND, of Smith Street, King's Road, Chelsea, in the County of Middlesex, Surveyor, for an invention for—"Improvements in spring hinges for swing doors." *Letters Patent sealed.*

MURPHY. 22nd March 1856.

671. JAMES MURPHY, of Newport, in the County of Monmouth, Civil Engineer, for an invention for—"Improvements in means or apparatus for stopping or retarding vehicles used on rail or other roads;—which improvements are also applicable to the break wheels in connection with stationary engines." *Letters Patent sealed.*

BROOKES. 22nd March 1856.

672. GEORGE HENRY BROOKES, of Dalkeith, in the County of Edinburgh, for an invention for—"Improvements in stoves, grates, or fireplaces."
Provisional protection only.

BRIERLEY. BRIERLEY. 22nd March 1856.

673. WILLIAM BRIERLEY, and JAMES PLATTS BRIERLEY, of Cleckheaton, in the County of York, Machine Makers, for an invention for—"Improvements in looms for weaving." *Letters Patent sealed.*

GLOVER. 22nd March 1856.

674. WALTER GLOVER, of Salford, near Manchester, in the County of Lancaster, Dyer and Finisher, for an invention for—"Improvements in the construction and arrangement of machinery or apparatus for damping and beetling woven fabrics."
Letters Patent sealed.

PRATT. 22nd March 1856.

675. HENRY PRATT, Engineer, of Worcester, for an invention for—"Certain improvements in the construction of union mills, and in the application of the motive-power apparatus and machinery connected with the manufacture of flour and bread;—parts of which are also applicable for other useful purposes." *Letters Patent sealed.*

COCKINGS. 22nd March 1856.

676. JAMES SEPTIMUS COCKINGS, Civil Engineer, of 26, Ann Street, Birmingham, in the County of Warwick, for an invention for—"An improved envelope, and which said envelope he proposes designating as the despatch or return envelope."
Provisional protection only.

JOHNSON. 22nd March 1856.

677. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in weaving by electric power, and in the machinery or apparatus employed therein."—*A communication from Monsieur Louis Bolmida, Banker, President of the Electro Weaving Company, at Turin, in the Kingdom of Sardinia.* *Letters Patent sealed.*

JONES. SHIRREFF. 22nd March 1856.

678. JOHN JONES, and ALEXANDER CUNNINGHAM SHIRREFF, both of the City of Glasgow, in the County of Lanark, North Britain, Engineers, for an invention for—"Improvements in the construction and application of rotatory motive-power engines and pumps." *Letters Patent sealed.*

JOHNSON. 22nd March 1856.

679. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in electro-magnetic printing telegraphs."—*A communication from Charles Claude Etienne Minié, Commandant of the School of Fire-arms, at Vincennes, in the Empire of France, and Louis François Clement Breguet, of Paris, in the Empire of France.*
Letters Patent sealed.

BRIERLY. 22nd March 1856.

680. HENRY BRIERLY, of Chorley, in the County of Lancaster, Machinist, for an invention for—"Improvements in self-acting mules for spinning and doubling."
Letters Patent sealed.

HINKS. WELLS. 22nd March 1856.

681. JOHN HINKS, and GEORGE WELLS, of Birmingham, in the County of Warwick, Manufacturers and Copartners, for an invention for—"Improvements in metallic pens and penholders." *Letters Patent sealed.*

SCHELHORN. 22nd March 1856.

682. GUSTAV GEORG ANTON LUDWIG MICHAEL SCHELHORN, of Birmingham, in the County of Warwick, Merchant and Manufacturer, for an invention for—"A new or improved penholder." *Letters Patent sealed.*

CAREY. 22nd March 1856.
683. CHARLES CAREY, of 32, Union Grove, Wandsworth Road, in the County Surrey, for an invention for—"Improvements in shower baths." *Provisional protection o*

BARLOW. 22nd March 1856.
684. WILLIAM HENRY BARLOW, of the Midland Railway, Derby, for an invent for—"Improvements in covering and constructing bridges, viaducts, floors, and ot structures of a like nature when iron is used." *Letters Patent seal*

CAREY. 22nd March 1856.
685. CHARLES CAREY, of 32, Union Grove, Wandsworth Road, in the Cou of Surrey, for an invention for—"Improvements in the vessels and filters used making infusions of coffee and other substances." *Provisional protection o*

JUCKES. 22nd March 1856.
686. JOHN JUCKES, of Dame Street, Islington, for an invention for—"Impro ments in furnace bars." *Letters Patent seal*

CAREY. 22nd March 1856.
687. CHARLES CAREY, of 32, Union Grove, Wandsworth Road, in the County Surrey, for an invention for—"Improvements in presses for copying letters and ot documents and for other uses." *Provisional protection o*

BARBER. 22nd March 1856.
688. EDMUND BARBER, of Tring, Hertfordshire, for an invention for—"Impro ments in mangles." *Provisional protection o*

CAREY. 22nd March 1856.
689. CHARLES CAREY, of 32, Union Grove, Wandsworth Road, in the County Surrey, for an invention for—"An improvement in omnibuses." *Provisional protection o*

HEATON. 24th March 1856.
690. THOMAS HEATON, of Blackburn, in the County of Lancaster, Engineer, an invention for—"Improvements in self-acting doors and gateways." *Letters Patent seal*

BRYANT. 24th March 1856.
691. JAMES BRYANT the younger, of Plymouth, in the County of Devon, Sug Refiner, for an invention for—"Improvements in machinery or apparatus for t reburning of animal charcoal." *Letters Patent seal*

ROBERTSON. 24th March 1856.
692. JAMES ROBERTSON, of Ardrossan, in the County of Ayr, North Brita Engineer, for an invention for—"Improvements in transmitting motive-power." *Letters Patent seal*

BROWN. BROWN. 24th March 1856.
693. PETER BROWN of Liverpool, in the County of Lancaster, Corn Mercha and GEORGE BROWN, of the same place, Corn Merchant, for an invention for "Certain improvements in sizing and stiffening textile materials or fabrics by t application of new materials for those purposes." *Provisional protection on*

BROWN. BROWN. 24th March 1856.
694. PETER BROWN, of Liverpool, in the County of Lancaster, Corn Mercha and GEORGE BROWN, of the same place, Corn Merchant, for an invention for—"A improved ash-pan for fire grates." *Letters Patent seal*

HUSBAND. 24th March 1856.
695. RICHARD HUSBAND, of Manchester, in the County of Lancaster, Hat Man facturer, for an invention for—"Certain improvements in the manufacture of hats." *Letters Patent seal*

TYSOE. TYSOE. FOXCROFT. 24th March 1856.
696. JOHN TYSOE, of Salford, in the County of Lancaster, and CHARLES TYSO of the same place, Cotton Spinners and Manufacturers, and PETER FOXCROFT, of t same place, Manager, for an invention for—"Certain improvements in machinery apparatus for roving, spinning, and doubling cotton and other fibrous substances." *Letters Patent seal*

PITT. DAVIES. 24th March 1856.
697. WILLIAM PITT, and EDWIN TURNER DAVIES, of Birmingham, in t County of Warwick, Brass Founders, for an invention for—"Improvements in t manufacture of brackets and castors for furniture." *Letters Patent seal*

CLAY. 24th March 1856.
698. WILLIAM CLAY, of Liverpool, in the County of Lancaster, Iron Merchan for an invention for—"Improvements in the manufacture of wrought or bar iron." *Letters Patent seal*

NEWTON. 24th March 1856.
699. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lan in the County of Middlesex, Civil Engineer, for an invention for—"An improv coupling for connecting carriages, locomotives, and all vehicles used on railways."— *communication.* *Provisional protection onl*

NEWTON. 24th March 1856.
700. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lan in the County of Middlesex, Civil Engineer, for an invention for—"Certain impro ments in cranes."—*A communication.* *Letters Patent seal*

CAUNCE.
25th March 1856.

701. ROBERT CAUNCE, of Bolton-le-Moors, in the County of Lancaster, Manager, for an invention for—"Improvements in the machines for spinning called mules."
Provisional protection only.

BROMLEY.
ADAMS.
25th March 1856.

702. JOHN BROMLEY, of Shelton, and WILLIAM ADAMS, of Etruria, both in the County of Stafford, for an invention for—"Improvements in ovens used for firing porcelain and other kinds of earthenware." *Provisional protection only.*

GIZARD.
25th March 1856.

703. LOUIS ANTOINE GIZARD, of 39, Rue de l'Echiquier, Paris, in the Empire of France, and of 4, South Street, Finsbury, London, for an invention for—"Improvements in elastic mattresses and cushions." *Provisional protection only.*

ASPINALL.
25th March 1856.

704. JOHN ASPINALL, of Limehouse, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in apparatus for obtaining extracts and decoctions." *Provisional protection only.*

FOSTER.
25th March 1856.

705. WILLIAM FOSTER, of Black Dike Mills, Bradford, in the County of York, Spinner and Manufacturer, for an invention for—"Improvements in looms for weaving." *Letters Patent sealed.*

JOHNSON.
25th March 1856.

706. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in machinery or apparatus for raising nap or pile."—*A communication from Messieurs F. H. Schroer, and C. E. Rost, of Meissen, in the Kingdom of Saxony.*
Letters Patent sealed.

DUNNICLIFF.
BATES.
25th March 1856.

707. JOHN DEARMAN DUNNICLIFF, of Nottingham, Lace Manufacturer, and STEPHEN BATES, of Radford, in the County of Nottingham, Machinist, for an invention for—"Improvements in the manufacture of twist lace and weavings."
Letters Patent sealed.

COTTAM.
COTTAM.
25th March 1856.

708. GEORGE HALLEN COTTAM, and HENRY RICHARD COTTAM, of Old St. Pancras Road, for an invention for—"Improvements in the manufacture of chairs, bedsteads, and other articles to sit and recline on." *Letters Patent sealed.*

HARGRAVES.
25th March 1856.

709. JAMES HARGRAVES, of the Woollen Works, Carlisle, in the County of Cumberland, for an invention for—"Improvements in the apparatus used for dyeing fabrics." *Letters Patent sealed.*

SMITH.
25th March 1856.

710. GEORGE HEDGCOMBE SMITH, of North Perrott, near Crewkerne, in the County of Somerset, Twine Manufacturer, for an invention for—"An improvement in the manufacture of saucepans, kettles, and other like culinary utensils."
Provisional protection only.

BALL.
25th March 1856.

711. WILLIAM BALL, of Chicopee, in the County of Hampden, State of Massachusetts, United States of America, for an invention for—"Improvements in machinery for stamping ores." *Letters Patent sealed.*

COLLINS.
25th March 1856.

712. ROBERT COLLINS, of Trent, in the County of Somerset, for an invention for—"An improved agricultural implement." *Letters Patent sealed.*

ILLINGWORTH.
25th March 1856.

713. WILLIAM ILLINGWORTH, of Manchester, in the County of Lancaster, Gentleman, for an invention for—"Certain improvements in printing or colouring china, earthenware, or other ceramic manufactures, and in the machinery or apparatus connected therewith, and also improvements in the subsequent treatment of such manufactures." *Provisional protection only.*

WAILES.
25th March 1856.

714. GEORGE WAILES, of 10, Palace Row, New Road, in the County of Middlesex, Engineer, for an invention for—"Improvements in the means of actuating valves used for regulating the passage of gas or water in pipes."—*Provisional protection only.*

WESTON.
CARTER.
26th March 1856.

715. MATTHEW WESTON, and ORLANDO CARTER, of Rochdale, in the County of Lancaster, for an invention for—"Improvements in machinery or apparatus for setting saws." *Provisional protection only.*

LILEY.
26th March 1856.

716. JOSEPH LILEY, of 5, Gutter Lane, in the City of London, for an invention for—"An improved case or sliding tube for candles, telescopes, opera-glasses, and is especially applicable to portable articles for the toilet in travelling, and is called 'Debas-Cylindrical-Etui.'"—*A communication.* *Provisional protection only.*

TOLHAUSEN. 26th March 1856.

717. ALEXANDRE TOLHAUSEN, of No. 7, Duke Street, Adelphi, London, County of Middlesex, Sworn Interpreter at the Imperial Court of Paris, for an invention for—"A new process of producing chemical writing, and of marking and inscribing chemically any characters or figures upon paper or other substance of similar character."—*A communication from Halvor Halvorson, United States.* *Letters Patent sealed.*

TOLHAUSEN. 26th March 1856.

718. ALEXANDRE TOLHAUSEN, of No. 7, Duke Street, Adelphi, London, County of Middlesex, Sworn Interpreter at the Imperial Court of Paris, for an invention for—"An improved mode of manufacturing porous earthenware."—*A communication from Halvor Halvorson, of Cambridge, Massachusetts, United States.* *Letters Patent sealed.*

GILBEE. 26th March 1856.

719. WILLIAM ARMAND GILBEE, of No. 4, South Street, Finsbury, London, and 39, Rue de l'Echiquier, Paris, Gentleman, for an invention for—"Improvements in the manufacture of glass."—*A communication from Monsieur Salmon, of Paris.* *Letters Patent sealed.*

DAFT. 26th March 1856.

720. THOMAS BARNABAS DAFT, of the Irish Engineering Company, Seville Iron Works, Dublin, for an invention for—"Improvements in the manufacture of metallic and other bedsteads and articles of metallic and other furniture."—*Letters Patent sealed.*

LOWE. 26th March 1856.

721. DAVID LOWE, of Leicester, in the County of Leicester, Mechanic, for an invention for—"Improvements in knitting-machinery." *Letters Patent sealed.*

SMITH. 26th March 1856.

722. GEORGE SMITH, of 9, Manor Road, in the Parish of Saint Mary's, Newington, in the County of Middlesex, for an invention for—"Improvements in envelopes for containing letters or documents." *Provisional protection only.*

RANKIN. 26th March 1856.

723. PATRICK SCOTT RANKIN, of Glasgow, in the County of Lanark, North Britain, Cabinet Maker, for an invention for—"Improvements in communicating or transmitting motive-power." *Provisional protection only.*

BARKER. TOOGOOD. 26th March 1856.

724. WILLIAM ROBERT BARKER, of Chapel Street, in the County of Middlesex, Gentleman, and WILLIAM TOOGOOD, of Mount Street, in the same County, Glass Dealer, for an invention for—"Improvements in bottles or in stoppering bottles, jars, and other receptacles." *Provisional protection only.*

ROCK. 26th March 1856.

725. JAMES ROCK the younger, of Hastings, in the County of Sussex, Carriage Builder, for an invention for—"Improvements in carriages, parts of which are applicable to other structures." *Letters Patent sealed.*

NEWTON. 26th March 1856.

726. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improved apparatus for exploring under water."—*A communication.* *Letters Patent sealed.*

CLAYTON. 26th March 1856.

727. WILLIAM CLAYTON, of Watling Street, in the City of London, Perfumer and Soap Manufacturer, for an invention for—"An improved manufacture of soap." *Letters Patent sealed.*

NEWTON. 26th March 1856.

728. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in macerating substances to be employed in the process of distillation."—*A communication.* *Letters Patent sealed.*

TAYLOR. GALLOWAY. 27th March 1856.

729. JAMES TAYLOR, and JAMES GALLOWAY, both of Bolton-le-Moors, in the County of Lancaster, Brassfounders, for an invention for—"Improvements in gauges for indicating pressure." *Provisional protection only.*

TOLHAUSEN. 27th March 1856.

730. ALEXANDRE TOLHAUSEN, of No. 7, Duke Street, Adelphi, London, County of Middlesex, Sworn Interpreter at the Imperial Court of Paris, for an invention for—"Certain improvements in watches and other time-keepers."—*A communication from Jacob Muma, of Hanover, United States.* *Letters Patent sealed.*

TALL. 27th March 1856.

731. JOSEPH TALL, of Islington, in the County of Middlesex, Gentleman, for an invention for—"Improvements in blind rollers and in fixings for the same." *Letters Patent sealed.*

NICHOLLS. 27th March 1856.

732. WILLIAM NICHOLLS, of Raunds, in the County of Southampton, Army Contractor, for an invention for—"An improvement in the manufacture of boots and shoes." *Provisional protection only.*

CUMMING. 27th March 1856.

733. RICHARD DURANT CUMMING, of St. James's, Middlesex, for an invention for—"A foot-stool and hassock combined."—*A communication.* *Letters Patent sealed.*

BRUNEL.
27th March 1856.

734. BONNET FRÉDÉRIC BRUNEL, of Hampstead Road, in the County of Middlesex, Chemist, for an invention for—"Improvements in the manufacture of Prussian blue." *Letters Patent sealed.*

CLIFF.
27th March 1856.

735. JAMES CLIFF, of Burton-upon-Trent, in the County of Stafford, Engineer, for an invention for—"Improvements in machinery for cleansing casks." *Provisional protection only.*

BALL.
27th March 1856.

736. WILLIAM BALL, of Chicopee, in the County of Hampden, State of Massachusetts, United States of America, for an invention for—"Improvements in machines for separating copper and other metals from their ores." *Letters Patent sealed.*

HILL.
27th March 1856.

737. ALLEN LEVINSTON HILL, of Birmingham, in the County of Warwick, Builder, for an invention for—"Improvements in furnaces for steam-boilers, japanners' stoves, and other such like purposes." *Letters Patent sealed.*

BUFTON.
27th March 1856.

738. EDWARD BUFTON, of No. 122, Piccadilly, in the County of Middlesex, Pharmaceutical Chemist, for an invention for—"An improved ink for marking linen and other fabrics, and in the case or holder for containing the same, and the implements to be used therewith." *Provisional protection only.*

DUMÉRY.
27th March 1856.

739. CONSTANT JOUFFROY DUMÉRY, of Paris, in the Empire of France, for an invention for—"Improvements in smoke preventing apparatus."—*Complete specification.* *Letters Patent sealed.*

THOMAS.
27th March 1856.

740. WILLIAM FREDERICK THOMAS, of St. Martin's-le-Grand, for an invention for—"Improvements in sewing-machines." *Letters Patent sealed.*

BARRATTE.
28th March 1856.

741. JOSEPH AUGUSTE BARRATTE, of 39, Rue de l'Echiquier, Paris, in the Empire of France, and of 4, South Street, Finsbury, London, Civil Engineer, for an invention for—"A new rotatory steam-engine." *Letters Patent sealed.*

MEYER.
28th March 1856.

742. JOHN CONRAD MEYER, of Paris, in the Empire of France, Civil Engineer, for an invention for—"Improvements in the construction of vices." *Provisional protection only.*

WARD.
28th March 1856.

743. WILLIAM WARD, of Warrington, in the County of Lancaster, Spinner and Manufacturer, for an invention for—"Improvements in apparatus for lubricating the spindles of certain machines used in preparing and spinning."—*Letters Patent sealed.*

DANIEL.
28th March 1856.

744. ALFRED DANIEL, of Moorfields, Wolverhampton, in the County of Stafford, Lock Manufacturer, for an invention for—"Improvements in the manufacture of keys and locks." *Letters Patent sealed.*

WEBBER.
28th March 1856.

745. JOSEPH WEBBER, of Torquay, in the County of Devon, Slate and Cement Merchant, for an invention for—"Improvements in generating steam." *Letters Patent sealed.*

CHARRITIE.
SMITH.
28th March 1856.

746. JOHN CHARRITIE, of Cannon Street, and WILLIAM SMITH, of 10, Salisbury Street, Adelphi, for an invention for—"Improvements in the manufacture of small shot."—*A communication.* *Letters Patent sealed.*

HARRISON.
28th March 1856.

747. JAMES HARRISON, of Geelong, in the Colony of Victoria, Gentleman, Member of the Legislative Council of Victoria, for an invention for—"Producing cold by the evaporation of volatile liquids in vacuo, the condensation of their vapours by pressure, and the continued re-evaporation and re-condensation of the same materials." *Letters Patent sealed.*

GETLEY.
28th March 1856.

748. SAMUEL GETLEY, of 6, Ivy Street, Birkenhead, in the County of Chester, Plumber, for an invention for—"Improvements in supplying and drawing water to and from cisterns." *Letters Patent sealed.*

HARRISON.
28th March 1856.

749. JAMES HARRISON, of Geelong, in the Colony of Victoria, Gentleman, Member of the Legislative Council of Victoria, for an invention for—"Distilling or evaporating in vacuo, condensing the vapour by pressure, and economizing heat." *Letters Patent sealed.*

TRUEMAN.
28th March 1856.

750. ALFRED TRUEMAN, of Swansea, for an invention for—"Improvements in treating argentiferous regulus." *Letters Patent sealed.*

NEWTON. 28th March 1856.

751. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"An improved air engine for producing motive-power by heated air."—*A communication from J. Ericsson, of New York.* *Letters Patent sealed; no specification filed.*

SANDS. 29th March 1856.

752. ALEXANDER SANDS, of the City of Manchester, Iron Founder, for an invention for—"Improvements in securing rails in railway chairs, and in the construction of railway chairs." *Provisional protection only.*

WILLIAMS. 29th March 1856.

753. CHARLES WYE WILLIAMS, of Liverpool, in the County Palatine of Lancaster, Gentleman, for an invention for—"Improvements in the application of air propelling or exhausting apparatus for ventilating and like purposes on board steam vessels." *Letters Patent sealed.*

SWYNEY. 29th March 1856.

754. JOHN SWYNEY, of the State of Massachusetts, of the United States of America, for an invention for—"Improvements in breech-loading magazine fire-arms." *Provisional protection only.*

PULS. 29th March 1856.

755. FRANCIS PULS, of Soho Square, in the County of Middlesex, Chemist, for an invention for—"Improvements in galvanic batteries." *Letters Patent sealed.*

RIPPON. 29th March 1856.

756. JOHN JAMES RIPPON, of Oakenshaw Print Works, near Accrington, in the County of Lancaster, Manufacturer, for an invention for—"An improvement or improvements in rollers or cylinders for printing fabrics." *Letters Patent sealed.*

POWELL. 29th March 1856.

757. ROBERT POWELL, of Number 2, Peter's Place, Saint Martin's Lane, in the Parish of Saint Martin in the Fields, in the County of Middlesex, Tailor, for an invention for—"A new method of making up cotton, linen, silk, woollen and other textile fabrics, whether waterproofed or not, into wearing-apparel, horse clothing, tents, tilts, and all other articles or things for which such fabrics are used, by which method the article or thing when made up and worn is perfectly ventilated." *Provisional protection only.*

EIVES. 29th March 1856.

758. JAMES EIVES, of 17, Cornhill, London, for an invention for—"A new mode of preparing fibres from plants."—*A communication.* *Letters Patent sealed.*

MUSCHAMP. 29th March 1856.

759. WILLIAM MUSCHAMP, of The Tyne Paper Mill Company, Gateshead, for an invention for—"An improvement in the manufacture of paper in order to render the same waterproof." *Letters Patent sealed.*

PENRICE. 29th March 1856.

760. HERBERT NEWTON PENRICE, Captain in the Royal Engineers, now stationed at Newcastle-upon-Tyne, in the County of Northumberland, for an invention for—"Improvements in machinery for driving galleries through rock and other strata." *Letters Patent sealed.*

M'LEAN. 29th March 1856.

761. JOHN M'LEAN, of Glasgow, in the County of Lanark, North Britain, Merchant, for an invention for—"Improvements in treating or preparing textile fabrics and materials for increasing the density thereof." *Letters Patent sealed.*

NORMAND. 29th March 1856.

762. CHARLES BENJAMIN NORMAND, of Havre, in the Empire of France, Ship Builder, for an invention for—"Improvements in steam-boilers, in apparatus for applying heat to steam-boilers, and economizing heat of furnaces." *Letters Patent sealed.*

NIMMO. 29th March 1856.

763. WILLIAM NIMMO, of Pendleton, in the County of Lancaster, Spinner and Manufacturer, for an invention for—"Improvements in the manufacture of textile fabrics." *Letters Patent sealed.*

GARDISSAL. 29th March 1856.

764. CHARLES DURAND GARDISSAL, of 10, Bedford Street, Strand, London, and of 29, Boulevart St. Martin, Paris, Patent Agent, for an invention for—"Certain improvements in steam-boilers."—*A communication.* *Letters Patent sealed.*

GUIDO. 29th March 1856.

765. ADOLPHE GUIDO, of Versailles, in the Empire of France, Chemist, for an invention for—"Improvements in cleansing, washing, scouring wool and woollen fabrics and yarns." *Letters Patent sealed.*

GARDISSAL. 29th March 1856.

766. CHARLES DURAND GARDISSAL, of 10, Bedford Street, Strand, London, and of 29, Boulevart St. Martin, Paris, Patent Agent, for an invention for—"A new compound of inflammable materials for the purpose of lighting fires in grates, stoves, furnaces, or other fireplaces."—*A communication.* *Provisional protection only.*

GARDISSAL. 29th March 1856.

767. CHARLES DURAND GARDISSAL, of 10, Bedford Street, Strand, London, and 29, Boulevart St. Martin, Paris, Patent Agent, for an invention for—"An improvement in screw stop valves."—*A communication.* *Letters Patent sealed.*

GARDISSAL. 29th March 1856.

768. CHARLES DURAND GARDISSAL, of 10, Bedford Street, Strand, London, and of 29, Boulevart St. Martin, Paris, Patent Agent, for an invention for—"Certain improvements in machinery for sweeping streets and other ways."—*A communication.* *Letters Patent sealed.*

HICKS. 31st March 1856.

769. JAMES HICKS, of Piddle Trenthide, in the County of Dorset, Clerk, for an invention for—"Improvements in stoves." *Letters Patent sealed.*

LOOKER. 31st March 1856.

770. BENJAMIN LOOKER the younger, of Kingston-upon-Thames, in the County of Surrey, Brick and Tile Manufacturer and Potter, for an invention for—"An improved mark or indicator to be let or fixed into the ground in burial-grounds and other places." *Letters Patent sealed.*

MÉLOREL DE LA HAICHOIS. 31st March 1856.

771. CHARLES JEAN LE MÉLOREL DE LA HAICHOIS, of 39, Rue de l'Echiquier, Paris, and of 4, South Street, Finsbury, London, Advocate, for an invention for—"Certain improvements in paving." *Letters Patent sealed.*

HENDERSON. 31st March 1856.

772. HENRY HENDERSON, of Glasgow, in the County of Lanark, North Britain, Plumber, for an invention for—"Improvements in stop cocks or valves." *Letters Patent sealed.*

PARKER. 31st March 1856.

773. CHARLES PARKER, of Dundee, in the County of Forfar, North Britain, Manufacturer, for an invention for—"Improvements in machinery or apparatus for winding yarns or threads." *Provisional protection only.*

BIRD. 31st March 1856.

774. GREGORY BIRD, of Glasgow, in the County of Lanark, North Britain, Manufacturing Chemist, for an invention for—"Improvements in the application of asphaltic or bituminous compositions for building and structural purposes." *Provisional protection only.*

BURRELL. 31st March 1856.

775. THOMAS WALLER BURRELL, of Fareham, in the County of Hants, Civil Engineer, for an invention for—"Improvements in machinery for obtaining power by water."—*A communication from Messrs. Mesuier and Cheneval, of Pontoise, France.* *Letters Patent sealed.*

CORNFORTH. 31st March 1856.

776. HENRY CORNFORTH, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"A new or improved manufacture of plated tea-pots and coffee-pots and other vessels and articles of like manufacture."—*Letters Patent sealed.*

PRINCE. 31st March 1856.

777. ALEXANDER PRINCE, of No. 4, Trafalgar Square (Office for Patents), Charing Cross, for an invention for—"Improvements in steel pens for regulating the elasticity thereof."—*A communication.* *Provisional protection only.*

SMITH. WATTS. 31st March 1856.

778. GEORGE THOMAS SMITH, of Northampton, in the County of Northampton, and JOEL WATTS, of Battersea, in the County of Surrey, for an invention for—"An improved lubricator." *Letters Patent sealed.*

NEWTON. 31st March 1856.

779. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improved machinery for folding paper."—*A communication.* *Letters Patent sealed.*

BENTLEY. 1st April 1856.

780. JOSEPH BENTLEY, of Liverpool, in the County of Lancaster, Gun Manufacturer, for an invention for—"Improvements in breech-loading fire-arms and in the cartridges to be used therewith." *Letters Patent sealed.*

BAPTISTE. 1st April 1856.

781. CHARLES BAPTISTE, Mechanician, of Toulouse, France, for an invention for—"Improvements in machines for manufacturing tenons and mortises."—*Partly a communication from Pierre Maijbon, of Toulouse.* *Letters Patent sealed.*

ASHTON. 1st April 1856.

782. JAMES ASHTON, of Hyde Corn Mills, Hyde, in the County of Chester, Miller, for an invention for—"Improvements in machinery or apparatus for bruising or breaking grain or other matters preparatory to grinding."—*Provisional protection only.*

SOUTHAM. STEAD. MARTIN. 1st April 1856.

783. ALFRED SOUTHAM, of the City of Manchester, in the County Palatine of Lancaster, Agent, SAMUEL STEAD, of Manchester aforesaid, Broker, and JAMES MARTIN, of Manchester aforesaid, Fent Dealer, for an invention for—"Separating or recovering the vegetable substances from mixed fabrics and rendering the same vegetable substances again available for manufacturing purposes." *Provisional protection only.*

HERBELOT. 1st April 1856.

784. ARMAND LOUIS ANDRÉ HERBELOT, Gentleman, of Paris, in the Empire of France, for an invention for—"A new method of obtaining a continual motive-power." *Provisional protection only.*

LAPORTE. 1st April 1856.

785. ETIENNE LAPORTE, Chemist, of Paris, in the French Empire, for an invention for—"The application of certain new materials in the manufacture of bougies, candles, and other similar articles." *Letters Patent sealed.*

GRAY. 1st April 1856.

786. JOHN GRAY, of Peckham, in the County of Surrey, Engineer, for an invention for—"Improvements in steam-boilers, furnaces, and fire bars."—*Letters Patent sealed.*

NEWTON. 1st April 1856.

787. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improved apparatus for ascertaining gradients."—*A communication.* *Letters Patent sealed.*

ROBERTS. 1st April 1856.

788. WILLIAM ROBERTS, of Millwall, Poplar, in the County of Middlesex, for an invention for—"Improvements in the construction of pumps."—*Letters Patent sealed.*

PATERSON. 1st April 1856.

789. JOHN PATERSON, of the Town and County of Linlithgow, North Britain, Engineer, for an invention for—"Improvements in the manufacture of paper." *Provisional protection only.*

GRICE. 2nd April 1856.

790. FREDERIC GRICE, of West Bromwich, in the County of Stafford, Manufacturer, for an invention for—"New or improved machinery for the manufacture of bolts, rivets, spikes, screw-blanks, and nuts." *Letters Patent sealed.*

YOUNG. 2nd April 1856.

791. FRANCES YOUNG, of Norwich, in the County of Norfolk, for an invention for—"An improved two-wheeled open vehicle or carriage." *Letters Patent sealed.*

ROBERTS. 2nd April 1856.

792. RICHARD ROBERTS, of the City of Manchester, Engineer, for an invention for—"Improvements in omnibuses and other passenger carriages." *Letters Patent sealed.*

M'GREGOR. MARQUIS. 2nd April 1856.

793. PETER M'GREGOR, of the Falcon Works, in the City of Manchester, Machine Maker, and THOMAS MARQUIS, of Huncoat, near Accrington, in the County of Lancaster, Spinner, for an invention for—"Certain improvements in the machines for spinning called 'Throstles.'" *Letters Patent sealed.*

COTTRILL. 2nd April 1856.

794. JAMES SMITH COTTRILL, of Great Lever, near Bolton, in the County of Lancaster, Bleacher, for an invention for—"Improvements in presses." *Letters Patent sealed.*

ELLIS. 2nd April 1856.

795. CHARLES ELLIS, of Stockport, in the County of Lancaster, Throstle Overlooker, for an invention for—"Certain improvements in machinery or apparatus for spinning and doubling cotton and other fibrous substances." *Provisional protection only.*

GALLOWAY. 2nd April 1856.

796. GEORGE BELL GALLOWAY, of 42, Basinghall Street, in the City of London, late of Chili, in South America, Engineer and Ship Owner, for an invention for—"Improvements in propelling vessels." *Letters Patent sealed.*

BONNARD. 2nd April 1856.

797. LODOWISKA BONNARD, of Tottenham Court Road, in the County of Middlesex, for an invention for—"Improvements in collapsible or folding hats and bonnets, and in flexible articles to be applied to other coverings for the head."—*A communication from his father, Jean Baptiste Bonnard, of Paris.* *Provisional protection only.*

GWYNNE. 2nd April 1856.

798. GEORGE GWYNNE, of Trafalgar Square, in the County of Middlesex, Esquire, for an invention for—"Improvements in treating fatty, oily, and greasy bodies." *Letters Patent sealed.*

HINE. 2nd April 1856.

799. HENRY GEORGE HINE, of Brecknock Street, Camden Town, for an invention for—"Improvements in children's and invalids' carriages, called Perambulators." *Letters Patent sealed.*

SMITH. 2nd April 1856.

800. HENRY SMITH, of Lee, in the County of Kent, Gentleman, for an invention for—"Apparatus for cleaning and polishing boots and shoes."—*Provisional protection only.*

SAMUEL. NICHOLSON. 2nd April 1856.

801. JAMES SAMUEL, of Great George Street, in the City of Westminster, Civil Engineer, and JOHN NICHOLSON, of Bow, in the County of Middlesex, Engineer, for an invention for—"Improvements in steam and other vapour engines." *Letters Patent sealed.*

NEWTON. 2nd April 1856.

802. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improvements in the construction of rotary steam-engines;—applicable in part to pumps for raising and forcing fluids."—*A communication from John Broughton, of the City of Chicago, in the United States of America.* *Letters Patent sealed.*

JENKINS. 3rd April 1856.

803. WILLIAM JENKINS, of Neath Abbey, in the Parish of Cadoxton juxta Neath in the County of Glamorgan, Moulder, for an invention for—"A new or improved method of manufacturing copper rollers for calico printing."—*Provisional protection only.*

PONTIFEX. NEEDHAM. 3rd April 1856.

804. EDMUND ALFRED PONTIFEX, of Shoe Lane, in the City of London, Manufacturer, and WILLIAM NEEDHAM, of Vauxhall, in the County of Surrey, Engineer, for an invention for—"Improvements in the manufacture of preparations or primings used for preparing canvas, wood, or other material, for the reception of pigments or colours." *Provisional protection only.*

SMITH. 3rd April 1856.

805. CHARLES COLONEL SMITH, of Wolverhampton, in the County of Stafford, Inn Keeper, for an invention for—"A new or improved method of working breaks for stopping machinery used for raising coals and minerals, and for stopping steam-engines and other motive-power engines." *Provisional protection only.*

BILLINTON. 3rd April 1856.

806. WILLIAM BILLINTON, of Great George Street, Westminster, Civil Engineer, for an invention for—"Improvements in strengthening and preserving wood and timber." *Provisional protection only.*

ABRAHAM. 3rd April 1856.

807. HENRY ROBERT ABRAHAM, of Essex House, Barnes, Surrey, for an invention for—"Improvements in passenger, exhibition, or delivery tickets or checks, and in the method of indicating and recording passenger traffic or delivery of goods, and in the machines used as tell-tales for such purposes." *Provisional protection only.*

WHITE. 3rd April 1856.

808. THOMAS WHITE, junior, of Portsmouth, in the County of Hants, Engineer and Ship Builder, for an invention for—"Improvements in slips and ways for receiving ships or vessels requiring repair, and for apparatus to be used for hauling up ships or vessels." *Letters Patent sealed.*

KITSON. 3rd April 1856.

809. FREDERICK WILLIAM KITSON, of Leeds, in the County of York, Engineer, for an invention for—"Improvements in the manufacture of railway wheels." *Letters Patent sealed.*

GLASSFORD. 3rd April 1856.

810. JOHN HAMILTON GLASSFORD, of Glasgow, in the County of Lanark, North Britain, Lithographer, for an invention for—"Improvements in the production or preparation of printing surfaces." *Provisional protection only.*

BANNEHR. 3rd April 1856.

811. JAMES BANNEHR, of Exeter, for an invention for—"An improvement in manufacturing or preparing paper for, and in mounting copies of written documents thereon." *Letters Patent sealed.*

FERNIE. 3rd April 1856.

812. JOHN FERNIE, of Forrester Street, Derby, Engineer, for an invention for—"Improvements in hoists by combining steam and a hydraulic column." *Provisional protection only.*

CHAPPUIS. 4th April 1856.

813. PAUL EMILE CHAPPUIS, of the Patent Reflector Factory, 69, Fleet Street, London, for an invention for—"Improvements in looking-glasses to render them double reflective." *Provisional protection only.*

HALLIWELL. 4th April 1856.

814. ROBERT HALLIWELL, of Bolton-le-Moors, in the County of Lancaster, Manager to Messieurs Benjamin Dobson and Edward Barlow, of the same place, Machine Makers, for an invention for—"Certain improvements in the machines for spinning called self-acting mules."—*A communication.* *Letters Patent sealed.*

GARDISSAL. 4th April 1856.

815. CHARLES DURAND GARDISSAL, of 10, Bedford Street, Strand, London, and 29, Boulevart St. Martin, Paris, Patent Agent, for an invention for—"The treatment or preparation of fabrics or textile materials to be dyed or printed."—*A communication.* *Provisional protection only.*

FISHER. 4th April 1856.

816. SAMUEL FISHER, of Birmingham, in the County of Warwick, Engineer, for an invention for—"Improvements in the manufacture of anchors, shafting for mill and engine purposes, axles, cranks, and spindles, and in the furnaces or muffles used in the said manufacture." *Letters Patent sealed.*

ROBERTS. 4th April 1856.

817. JOHN ROBERTS, of Upnor, in the County of Kent, Terra Cotta Manufacturer, for an invention for—"Improvements in the manufacture of ornamental tiles." *Provisional protection only.*

RAMIÉ. 4th April 1856.

818. CHARLES WILLIAM RAMIÉ, of 73, Denbigh Street, Pimlico, in the County of Middlesex, for an invention for—"Improvements in constructing the permanent ways of railways." *Letters Patent sealed.*

BOUSFIELD. 4th April 1856.

819. GEORGE TOMLINSON BOUSFIELD, of Sussex Place, Loughborough Road, Brixton, in the County of Surrey, for an invention for—"Improvements in moulding planes."—*A communication.* *Letters Patent sealed.*

MARTIEN. 4th April 1856.

820. JOSEPH GILBERT MARTIEN, of Newark, New Jersey, in the United States of America, but now residing at 32, Essex Street, Strand, London, for an invention for—"Improvements in the manufacture of iron." *Letters Patent sealed.*

JONES. 5th April 1856.

821. JAMES JONES, of Warrington, in the County of Lancaster, for an invention for—"Improvements in railway chairs and in the method of securing the rails to the same." *Provisional protection only.*

HOGG. NAPIER. 5th April 1856.

822. JAMES HOGG, Publisher, South Blacket Place, and JOHN NAPIER, Stereotyper, East Siennes Street, both of Edinburgh, in the County of Edinburgh, for an invention for—"Improvements in stereotyping." *Letters Patent sealed.*

BLAKE. 5th April 1856.

823. OBED BLAKE, of the Thames Plate Glass Works, Blackwall, in the County of Middlesex, Manager, for an invention for—"Improvements in the manufacture of glass." *Provisional protection only.*

KISCH. 5th April 1856.

824. BENJAMIN KISCH, of Kennington, in the County of Surrey, Gentleman, for an invention for—"An apparatus for containing an arrangement of cards or papers for selection."—*A communication.* *Provisional protection only.*

WEBSTER. 5th April 1856.

825. JAMES WEBSTER, of Birmingham, in the County of Warwick, Engineer, for an invention for—"A new or improved elastic metallic tube, and the method of manufacturing the same." *Letters Patent sealed.*

WHITEHEAD. 5th April 1856.

826. THOMAS REEVES WHITEHEAD, of the City of Manchester, in the County of Lancaster, Bookkeeper, for an invention for—"Improvements in garments or apparatus to be used for sustaining the human body in water, or for acquiring the art of swimming." *Provisional protection only.*

BERNARD. 5th April 1856.

827. JULIAN BERNARD, of the Albany, Piccadilly, in the County of Middlesex, Gentleman, for an invention for—"Improvements in machinery or apparatus employed for manufacturing or making boots and shoes or other coverings for the feet." *Letters Patent sealed.*

MARTIN. 5th April 1856.

828. EDWARD MARTIN, of Oxford, Cricket-bat Maker, for an invention for—"An improved leg guard." *Provisional protection only.*

STURLEY. 5th April 1856.

829. HENRY THOMAS STURLEY, of Church Street, South Lynn, in the County of Norfolk, for an invention for—"An improved compound or breakfast mixture." *Letters Patent sealed.*

MORTON. 5th April 1856.

830. ARNOLD MORTON, of Wakefield, in the County of York, for an invention for—"Improvements in the manufacture of paints and pigments."—*Letters Patent sealed.*

MADDISON. 5th April 1856.

831. WILLIAM PORTER MADDISON, of Barnsley, in the County of York, for an invention for—"An improved telegraph or apparatus for the transmission of signals." *Letters Patent sealed.*

MOORE. 5th April 1856.

832. WILLIAM HENRY MOORE, of Wenlock Place, City Road, in the County of Middlesex, for an invention for—"An improvement in the manufacture of candles." *Provisional protection only.*

UNDERHAY. 5th April 1856.

833. FREDERICK GEORGE UNDERHAY, of 13, Wells Street, Gray's Inn Road, in the County of Middlesex, for an invention for—"Improvements in apparatus for drawing off water." *Letters Patent sealed.*

CRAIGIE. 5th April 1856.

834. HENRY CRAIGIE, of Edinburgh, W.S., for an invention for—"Improvements in heating apartments where gas and water are used." *Letters Patent sealed.*

BETTELEY. 5th April 1856.

835. JOSEPH BETTELEY, of Liverpool, Anchor Manufacturer, for an invention for—"Improvements in the manufacture of iron for knees for ships or other purposes." *Provisional protection only.*

GEDGE. 7th April 1856.

836. JOHN GEDGE, of No. 4, Wellington Street South, Strand, in the County of Middlesex, Patent Agent, for an invention for—"Improvements in tiles for buildings."—*A communication from Charles Pandosy.* *Provisional protection only.*

SMITH. LUNTLEY. 7th April 1856.

837. JACOB SMITH, of No. 9, Union Court, Old Broad Street, JOHN LUNTLEY, of No. 3, New Broad Street Court, in the City of London, for an invention for—"Treating the sunflower plant to render its fibres applicable to the manufacture of textile fabrics, paper, yarn, cordage, &c." *Provisional protection only.*

LEIGH. 7th April 1856.

838. JOHN LEIGH, of the City of Manchester, in the County of Lancaster, Surgeon, for an invention for—"The use or application of a certain substance or substances in the sizing, stiffening, or otherwise preparing cotton, linen, or other yarns and woven fabrics." *Letters Patent sealed.*

MORRIS. 7th April 1856.

839. EPHRAIM MORRIS, of Bergen, in the County of Hudson, and State of New Jersey, United States of America, for an invention for—"Improved machinery for raising and lowering weights." *Letters Patent sealed.*

NEWTON. 7th April 1856.

840. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"An improved construction of furnace for the manufacture of glass."—*A communication.* *Letters Patent sealed.*

GARDISSAL. 7th April 1856.

841. CHARLES DURAND GARDISSAL, of 10, Bedford Street, Strand, London, and of 29, Boulevart St. Martin, Paris, Patent Agent, for an invention for—"Preparing various resins and combining them with oils and fatty matters for manufacturing candles thereof."—*A communication.* *Letters Patent sealed.*

MORTON. 7th April 1856.

842. ARNOLD MORTON, of Wakefield, in the County of York, for an invention for—"Improvements in the manufacture of paper hangings for decorative purposes." *Letters Patent sealed.*

TERRY. 7th April 1856.

843. WILLIAM TERRY, of Birmingham, in the County of Warwick, Gun Maker, for an invention for—"Improvements in breech-loading fire-arms." *Letters Patent sealed.*

FULLER. 7th April 1856.

844. WILLIAM COLES FULLER, of 2, Bucklersbury, Cheapside, in the City of London, India-Rubber Spring Manufacturer, for an invention for—"Improvements in constructing and adapting india-rubber as tires for wheels." *Letters Patent sealed.*

ADAMS. 7th April 1856.

845. JOHN ADAMS, of 11, Grosvenor Street, Belgrave Gate, Leicester, for an invention for—"Improvements in knitting-machinery." *Provisional protection only.*

GAUNTLETT. 7th April 1856.

846. WILLIAM HENRY GAUNTLETT, of the South Bank Iron Works, Eston Junction, near Middlesbro'-on-Tees, for an invention for—"Improvements in thermometric apparatus." *Letters Patent sealed.*

GRAVES. HENSON. 7th April 1856.

847. JOHN GRAVES, of the City of London, Gentleman, and WILLIAM FREDERICK HENSON, of Hampstead, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in lubricating carriage and other axles." *Provisional protection only.*

GOLD. 8th April 1856.

848. STEPHEN JOHNSON GOLD, of the City of New Haven, and State of Connecticut, United States of America, for an invention for—"An improvement in apparatus for warming buildings by steam." *Letters Patent sealed.*

BOWSER. 8th April 1856.

849. JOHN CARRICK BOWSER, of Queen's Terrace, St. John's Wood, in the County of Middlesex, for an invention for—"Improvements in glove-fastenings." *Provisional protection only.*

DEVAUX. 8th April 1856.

850. ALEXANDER CHARLES LOUIS DEVAUX, of King William Street, in the City of London, Merchant, for an invention for—"Improvements in the construction and fitting up of granaries." *Letters Patent sealed.*

NEWTON. 8th April 1856.

851. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in the process of manufacturing steel, and carbonizing iron and the ores thereof in the said manufacture."—*A communication.* *Letters Patent sealed.*

CURTIS. 8th April 1856.

852. WILLIAM JOSEPH CURTIS, of 1, Sebbon Street, Islington, for an invention for—"Improvements in lubricating the axles of locomotive engines and of carriages on railways." *Letters Patent sealed.*

RANSOME. BIDDELL. 8th April 1856.

853. JAMES ALLEN RANSOME, and GEORGE ARTHUR BIDDELL, of Ipswich, for an invention for—"Improvements in the manufacture of railway bars and flanch bearers of railway crossings." *Provisional protection only.*

BROOKE. 8th April 1856.

854. JOHN BROOKE, of 10, Crescent, Jewin Street, City, for an invention for—"Improvements in lift pumps." *Letters Patent sealed.*

GEDGE. 9th April 1856.

855. JOHN GEDGE, of No. 4, Wellington Street South, Strand, in the County of Middlesex, Patent Agent, for an invention for—"Improvements in the treatment or preparation of leather, and in the manufacture of articles composed thereof."—*A communication from M. Sejac, of Paris.* *Provisional protection only.*

WHITGREAVE. 9th April 1856.

856. JOSEPH ROBERT WHITGREAVE, of Rugeley, in the County of Stafford, Gentleman, for an invention for—"Improvements in the arrangement and construction of locomotive engines." *Letters Patent sealed.*

LAXTON. 9th April 1856.

857. HENRY LAXTON, of the firm of William and Henry Laxton, of the Office for British and Foreign Patents, No. 19, Arundel Street, Strand, in the County of Middlesex, Civil Engineer, for an invention for—"A new and improved apparatus for increasing the buoyancy of ships and other vessels."—*A communication from Alexander Le Mot, of the United States of America.* *Provisional protection only.*

CHRIMES. 9th April 1856.

858. RICHARD CHRIMES, of Rotherham, in the County of York, Brass Founder, for an invention for—"Improvements in buffers and other springs for railway and other carriages." *Letters Patent sealed.*

ARMOUR. 9th April 1856.

859. JOHN ARMOUR, of Kirkton Bleach Works, in the County of Renfrew, North Britain, Bleacher, for an invention for—"Improvements in bleaching textile fabrics and materials." *Provisional protection only.*

MORRELL. 9th April 1856.

860. GEORGE FREDERICK MORRELL, of Fleet Street, in the City of London, for an invention for—"Improvements in the manufacture of railway chairs." *Letters Patent sealed.*

LAXTON. 10th April 1856.

861. HENRY LAXTON, of the firm of William and Henry Laxton, of the Office for British and Foreign Patents, No. 19, Arundel Street, Strand, Civil Engineer, for an invention for—"An improved mode of adjusting circular saws."—*A communication from Amos D. Highfield, and William H. Harrison, of the United States of America.* *Letters Patent sealed.*

BANCROFT. WHITE. 10th April 1856.

862. PETER BANCROFT, of Edmund Street, Liverpool, in the County of Lancaster, Oil Merchant, and STEPHEN WHITE, of Bond Street, Liverpool, in the County of Lancaster, Manufacturing Chemist, for an invention for—"A method of manufacturing certain oils or oily substances obtained from the petroleum commonly called earth oil found in certain districts of the Birman Empire and elsewhere."—*Complete specification.* *Protection for six months only.*

NEWTON. 10th April 1856.

863. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improvements in the means of attaching together or securing sheets and pieces of paper or manuscript documents."—*A communication.* *Provisional protection only.*

HALL. 10th April 1856.

864. WALTER HALL, of Erith, in the County of Kent, India-Rubber Manufacturer, for an invention for—"A method of stopping or retarding the way of ships and vessels in order to prevent collisions and otherwise." *Provisional protection only.*

HOMFRAY. 10th April 1856.

865. GEORGE HOMFRAY, of Ruabon, in the County of Denbigh, for an invention for—"An improvement in furnaces." *Provisional protection only.*

HENDERSON. 11th April 1856.

866. JOHN HENDERSON, of Glasgow, in the County of Lanark, North Britain, Plumber, for an invention for—"Improvements in water-closets." *Provisional protection only.*

MAKIN. BARNSLEY. 11th April 1856.

867. THOMAS WILLIAMS MAKIN, of Longsight, near Manchester, in the County of Lancaster, Silk Finisher, and JOHN BARNSLEY, of Stockport, in the County of Chester, Engraver, for an invention for—"Improvements in machinery or apparatus for embossing moiré antique water on all kinds of woven fabrics."—*Letters Patent sealed.*

NORMANDY. 11th April 1856.

868. LOUIS NORMANDY, of 67, Judd Street, Brunswick Square, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in the mode of writing and printing music to facilitate the study thereof."—*A communication from l'Abbé Eugène Cormier.—Complete specification.* *Letters Patent sealed.*

BURNSIDE. 11th April 1856.

869. JAMES BURNSIDE, of No. 42, Henry Street, Sunderland, General Traffic Manager for the Sunderland Dock Company, for an invention for—"Improvements in apparatus for propelling and steering ships and boats." *Letters Patent sealed.*

FONTAINEMOREAU. 11th April 1856.

870. PETER ARMAND LE COMTE DE FONTAINEMOREAU, of 39, Rue de l'Echiquier, Paris, in the Empire of France, and of 4, South Street, Finsbury, London, for an invention for—"An improved apparatus for measuring the speed of currents of air and water."—*A communication.* *Letters Patent sealed.*

JACKSON. 11th April 1856.

871. GEORGE JACKSON, of Bilston, in the County of Stafford, Iron Master, for an invention for—"A new or improved steam-boiler to be heated by the waste heat of puddling or mill furnaces." *Letters Patent sealed.*

DAVIS. 11th April 1856.

872. ROBERT DAVIS, of 267, Oxford Street, in the County of Middlesex, for an invention for—"Improvements in the construction of tobacco-pipe stems." *Letters Patent sealed.*

PERPIGNA. 11th April 1856.

873. ANTOINE PERPIGNA, Advocate, of Paris, in the Empire of France, for an invention for—"Improvements in the manufacture of coke."—*A communication.* *Provisional protection only.*

MASH. 12th April 1856.

874. JAMES MASH, of the City of Manchester, in the County of Lancaster, Engineer, for an invention for—"Improvements in the fusible plugs and furnaces of steam-boilers." *Letters Patent sealed.*

SCHULTZ. 12th April 1856.

875. LUDWIG SCHULTZ, of Green Street, Stepney, County of Middlesex, Photographic Artist, for an invention for—"Improvements in obtaining photographic pictures upon paper, glass, metal plates, and other fibrous substances." *Provisional protection only.*

NEWALL. 12th April 1856.

876. ROBERT STIRLING NEWALL, of Gateshead-upon-Tyne, in the County of Durham, Telegraph Engineer, for an invention for—"Improvements in telegraph insulators." *Letters Patent sealed.*

FLINT. 12th April 1856.

877. WILLIAM BRAGG FLINT, Truss Manufacturer, of Birmingham, in the County of Warwick, for an invention for—"Certain improvements in fasteners for shutters, windows, doors, and such like purposes;—and which said fastening is also applicable to the coupling of railway carriages and trucks, and other useful purposes." *Provisional protection only.*

NUIBO Y PEDROS. 12th April 1856.

878. FRANCISCO NUIBO Y PEDROS, of 39, Rue de l'Echiquier, Paris, in the Empire of France, and of 4, South Street, Finsbury, London, for an invention for—"A new motive-power." *Letters Patent sealed.*

LINDSAY. 12th April 1856.

879. ROBERT BAIRD LINDSAY, of Mill Wall Brewery, Poplar, in the County of Middlesex, for an invention for—"An improvement in removing the scale or deposit from tubular flues of steam-boilers." *Letters Patent sealed.*

HEYWOOD. 14th April 1856.

880. EDWIN HEYWOOD, of Sutton, near Keighley, in the County of York, Engineer, for an invention for—"Improvements in fixing apparatus for generating steam, whereby smoke will be prevented or consumed and fuel economized." *Letters Patent sealed.*

BRADEN. BRADEN. 14th April 1856.

881. GEORGE BRADEN, and CHARLES BRADEN, both of Sharp's Alley, in the County of Middlesex, Manufacturers, for an invention for—"Improvements in the manufacture of show tablets for advertizing purposes." *Provisional protection only.*

ROBERTSON. 14th April 1856.

882. PATRICK ROBERTSON, of Shawlands Hill, in the County of Renfrew, Manufacturer, for an invention for—"Improvements in power-loom weaving." *Letters Patent sealed.*

SYMONDS. FELL. 14th April 1856.

883. JOHN SYMONDS, and THOMAS MARA FELL, Smelters and Gold Ore Reducers, of Sufferance Wharf, Mill Wall, Poplar, in the County of Middlesex, for an invention for—"Certain improvements in the reduction of gold, silver, and other ores." *Letters Patent sealed.*

RICHARDSON. 14th April 1856.

884. ROBERT RICHARDSON, of Great George Street, Westminster, in the County of Middlesex, for an invention for—"Improvements in railway switches." *Letters Patent sealed.*

DAVIES. 14th April 1856.

885. GEORGE DAVIES, of the Office for Patents, 1, Serle Street, Lincoln's Inn, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in the method of soldering or uniting cast iron."—*A communication from Mathieu Joseph Receveur.* *Letters Patent sealed.*

COULON. 14th April 1856.

886. LOUIS PIERRE COULON, of 39, Rue de l'Echiquier, Paris, in the Empire of France, and of 4, South Street, Finsbury, London, for an invention for—"A new type distributing and composing machine."—*A communication.* *Letters Patent sealed.*

BRIDGWOOD. 14th April 1856.

887. JESSE BRIDGWOOD, of Burslem, in the County of Stafford, Manufacturer, for an invention for—"An improvement in the manufacture of china and earthenware plug wash-hand basins."—*A communication.* *Provisional protection only.*

BARRANS. 14th April 1856.

888. JOSEPH BARRANS, of New Cross, Deptford, in the County of Kent, for an invention for—"Improvements in constructing steam-engines."—*Letters Patent sealed.*

LISTER. 14th April 1856.

889. SAMUEL CUNLIFFE LISTER, of Bradford, County of York, for an invention for—"Improvements in spinning." *Letters Patent sealed.*

WARREN. DE LA RUE. 14th April 1856.

890. WILLIAM WARREN, of Northampton Park, Gentleman, and WARREN DE LA RUE, of Bunhill Row, Manufacturer, both in the County of Middlesex, for an invention for—"An improvement in the manufacture of envelopes."—*Letters Patent sealed.*

LISTER. 14th April 1856.

891. SAMUEL CUNLIFFE LISTER, of Bradford, in the County of York, for an invention for—"Improvements in weaving." *Letters Patent sealed.*

KABERRY. HORSEFIELD. 14th April 1856.

892. LEONARD KABERRY, of Rochdale, in the County of Lancaster, Manager, and AARON HORSEFIELD, of the same place, Moulder, for an invention for—"Improvements in moulding for casting certain parts of machinery used in the preparation and spinning of cotton and other fibrous materials." *Letters Patent sealed.*

NEWTON. 14th April 1856.

893. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improved machinery for felting hat bodies."—*A communication from James Seely Taylor, of Danbury, in the State of Connecticut, United States of America.* *Letters Patent sealed.*

NEWTON. 14th April 1856.

894. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"An improved mode of constructing grate bars."—*A communication from John Beal, Andrew D. Melick, and Theodore de Witt, of New York.* *Letters Patent sealed.*

FORBES. 15th April 1856.

895. HUGO FREDERICK FORBES, of Park Place, Regent's Park, London, in the County of Middlesex, for an invention for—"Improvements in breech-loading fire-arms and ordnance, and in projectiles used therewith." *Letters Patent sealed.*

OLLEY. 15th April 1856.

896. WILLIAM HENRY OLLEY, of No. 2, Brabant Court, Philpot Lane, in the City of London, Wine Merchant, for an invention for—"Taking photographic impressions or pictures of microscopic objects by reflection, such reflection being effected by the combined aid of the microscope and camera obscura and camera lucida, or other reflectors that may be employed in place of the latter." *Provisional protection only.*

SMITH. 15th April 1856.

897. WILLIAM SMITH, of Aston, near Birmingham, in the County of Warwick, Manufacturer, for an invention for—"Improvements in the manufacture of steel wire for musical and other purposes." *Letters Patent sealed.*

JEFFRIES. 15th April 1856.

898. THOMAS JEFFRIES, of Reading, in the County of Berks, for an invention for—"Improvements in cooking-stoves." *Letters Patent sealed.*

SOUTHBY. 15th April 1856.

899. EDMUND RICHARD SOUTHBY, of Bulford, Amesbury, in the County of Wilts, for an invention for—"An improvement in coating iron with copper." *Letters Patent sealed.*

BOUSFIELD. 15th April 1856.

900. GEORGE TOMLINSON BOUSFIELD, of Sussex Place, Loughborough Road, Brixton, in the County of Surrey, for an invention for—"Improvements in surface or fresh water condensers chiefly applicable to steam-engines."—*A communication from Nathan Thompson, junior, of Williamsburgh, King's County, New York, United States of America.—Complete specification.* *Letters Patent sealed.*

DEMAIN. 15th April 1856.

901. JOSEPH DEMAIN, of Markington, in the County of York, Agricultural Implement Manufacturer, for an invention for—"An improvement in connecting railway carriages." *Provisional protection only.*

FULLER. 15th April 1856.

902. WILLIAM FULLER, of Jermyn Street, in the County of Middlesex, Ice Pail Manufacturer, for an invention for—"Improvements in ice pails." *Letters Patent sealed.*

ROUTLEDGE. 16th April 1856.

903. WILLIAM ROUTLEDGE, of Salford, in the County Palatine of Lancaster, Engineer, for an invention for—"Improvements in the construction of steam-engine and other boilers to prevent explosions." *Letters Patent sealed.*

NORMINTON. 16th April 1856.

904. EDWIN NAPOLEON NORMINTON, of 12, Charrington Street, St. Pancras, in the County of Middlesex, for—"An invention for the manufacturing of railway grease, for the cleansing and remanufacturing of old used dirty railway grease or greases, for the cleansing and remanufacturing of old dirty cotton waste, tow, or any textile fabric." *Provisional protection only.*

PRIESTLEY. 16th April 1856.

905. FREDERICK PRIESTLEY, of Cleveland Street, Fitzroy Square, in the County of Middlesex, Pianoforte Manufacturer, for an invention for—"Improvements in pianofortes." *Letters Patent sealed.*

WHITE. 16th April 1856.

906. DAVID BLAIR WHITE, of Newcastle-upon-Tyne, in the County of the Town of Newcastle-upon-Tyne, Doctor of Medicine, for an invention for—"An improvement or improvements in cylinder pistons or plungers." *Letters Patent sealed.*

MELLODEW. DUXBURY. 16th April 1856.

907. THOMAS MELLODEW, of Oldham, in the County of Lancaster, Manufacturer, and JOHN DUXBURY, of the same place, Mechanic, for an invention for—"Improvements in shuttles for weaving." *Provisional protection only.*

NEWTON. 16th April 1856.

908. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improvements in fire-arms and powder flasks."—*A communication from Colonel Sam. Colt.* *Letters Patent sealed.*

NEWTON. 16th April 1856.

909. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improved apparatus for raising sunken vessels and increasing the buoyancy of floating vessels."—*A communication from Thomas Bell, of New York City.* *Letters Patent sealed.*

JOHNSON. 16th April 1856.

910. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in cleansing and hulling grain and seeds and in the machinery or apparatus employed therein."—*A communication from Charles Theodore Laborey, of Paris, Mechanician.* *Letters Patent sealed.*

ARMITAGE. LEA. 16th April 1856.

911. WILLIAM ARMITAGE, of Farnley Iron Works, and HENRY LEA, Manager to the Farnley Iron Company, both of Farnley, near Leeds, in the County of York, for an invention for—"An improvement in the manufacture of iron."—*Letters Patent sealed.*

LITTLE. 16th April 1856.

912. WILLIAM LITTLE, of the Strand, for an invention for—"Improvements in lamps for burning paraffine and bituminous oils or naphthas."—*Letters Patent sealed.*

WILKINSON. 16th April 1856.

913. WILLIAM WILKINSON, of Hull, Mechanic, for an invention for—"Improvements in steam-engines." *Provisional protection only.*

HULME. IVERS. YARDLEY. 17th April 1856.

914. CHARLES HULME, SAMUEL IVERS, and JOHN YARDLEY, all of Farnworth, in the County of Lancaster, Mechanics, for an invention for—"Certain improvements in power-looms for weaving." *Provisional protection only.*

SCOTT. 17th April 1856.

915. HENRY YOUNG DARRACOTT SCOTT, of Brompton Barracks, Chatham, in the County of Kent, Captain in the Royal Engineers, for an invention for—"An improved mode of manufacturing cement." *Letters Patent sealed.*

JOHNSON. 17th April 1856.

916. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in the manufacture of tyres."—*A communication from Messrs. Jackson Brothers, Petin, Gaudet, and Company, of Rive de Gier.* *Letters Patent sealed.*

MESURE. 17th April 1856.

917. LIANNA MESURE, of Billericay, in the County of Essex, Watch Maker, for an invention for—"An improvement in watches." *Letters Patent sealed.*

EYRE. 17th April 1856.

918. SAMUEL EYRE, of Bouverie Street, in the City of London, Advertisement Contractor, for an invention for—"An improved application of portable mirror." *Provisional protection only.*

LUNTLEY. 17th April 1856.

919. JOHN LUNTLEY, of Broad Street, in the City of London, Printer, for an invention for—"A new fabric or new fabrics suitable for wearing-apparel and other purposes to which textile fabrics are applicable." *Provisional protection only.*

WRIGHT. 17th April 1856.

920. JOHN SKIRROW WRIGHT, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"Improvements in the construction and ornamentation of belt or band fastenings." *Letters Patent sealed.*

LÜRIG. 18th April 1856.

921. GEORGE LÜRIG, of the Town of Adelebsen, Hanover, residing in Paris, Soap Manufacturer, for an invention for—"Improvements in the process of manufacturing salt petre." *Letters Patent sealed.*

WESTLEY. 18th April 1856.

922. WILLIAM WESTLEY, of Willington, in the County of Derby, Civil Engineer, for an invention for—"A new or improved nail or spike." *Letters Patent sealed.*

TYTHERLEIGH. 18th April 1856.

923. WILLIAM TYTHERLEIGH, of Birmingham, in the County of Warwick, Accountant Clerk, for an invention for—"A new or improved method of coating or covering iron or articles of iron, with copper or alloys of copper."—*Letters Patent sealed.*

MARSH. 18th April 1856.

924. JOHN MARSH, of Burnt Tree, near Dudley, in the County of Worcester, Manufacturer, for an invention for—"Improvements in fire grates."—*Letters Patent sealed.*

BUDDEN. 18th April 1856.

925. WILLIAM BUDDEN, of Ipswich, in the County of Suffolk, Bookseller, for an invention for—"An improved method of preparing cheques, invoices, and other papers, so that they may be readily separated from their counterparts." *Provisional protection only.*

STANSBURY. 18th April 1856.

926. CHARLES FREDERICK STANSBURY, of the American and European Patent Offices, 67, Gracechurch Street, London, for an invention for—"An improved mode of splicing and fastening the adjacent ends of the rails of a railway track."—*A communication.* *Provisional protection only.*

HOLLINGWORTH. 18th April 1856.

927. THOMAS HOLLINGWORTH, of Turkey Mill, near Maidstone, in the County of Kent, Paper Manufacturer, for an invention for—"Improved machinery for dusting or cleaning rags." *Letters Patent sealed.*

SCOTT. 18th April 1856.

928. URIAH SCOTT, of Camden Town, in the County of Middlesex, Engineer, for an invention for—"Improvements in metal fittings for furniture."—*Letters Patent sealed.*

GARDNER. 18th April 1856.

929. EDWARD VINCENT GARDNER, of 24, Norfolk Street, Middlesex Hospital, in the County of Middlesex, for an invention for—"Improvements in furnaces." *Provisional protection only.*

WALKER. 18th April 1856.

930. THOMAS WALKER, of Birmingham, in the County of Warwick, Engineer, for an invention for—"Improvements in governors or regulators of steam and other motive-power engines." *Letters Patent sealed.*

THOMPSON. 18th April 1856.

931. GEORGE THOMPSON, of Marchmont Street, Russell Square, in the County of Middlesex, Gentleman, for an invention for—"Improvements in instruments or apparatus used in drawing or marking with crayon, 'black lead,' or other such materials." *Letters Patent sealed.*

JEFFREYS. 18th April 1856.

932. JULIUS JEFFREYS, of Kingston Hill, in the County of Surrey, for an invention for—"Improvements in instruments for aiding respiration."—*Letters Patent sealed.*

BARLOW. 18th April 1856.

933. PETER WILLIAM BARLOW, of Great George Street, Westminster, for an invention for—"An improvement in seasoning timber." *Letters Patent sealed.*

JENNINGS. 18th April 1856.

934. JOSIAH GEORGE JENNINGS, of Great Charlotte Street, Blackfriars Road, in the County of Surrey, for an invention for—"Improvements in pumps." *Letters Patent sealed.*

MORET. 19th April 1856.

935. CLAUDE MORET, of 39, Rue de l'Echiquier, Paris, in the Empire of France, and of 4, South Street, Finsbury, London, Engineer, for an invention for—"Improvements in rotatory steam-engines." *Letters Patent sealed.*

GRIFFITHS. 19th April 1856.

936. ROBERT GRIFFITHS, of 69, Mornington Road Park, for an invention for—"Improvements in the manufacture and fixing of metallic capsules and coverings for the tops of bottles, jars, and other vessels." *Provisional protection* NOT *granted.*

BLACKBURN. 19th April 1856.

937. THOMAS BLACKBURN, of Brighouse, in the West Riding of the County of York, Cotton Spinner, for an invention for—"Improvements in preparing for spinning cotton waste and silk waste." *Provisional protection only.*

HUNT. 19th April 1856.

938. EDMUND HUNT, of 31, Walnut Tree Walk, in the Parish of St. Mary, Lambeth, in the County of Surrey, Practical Chemist, for an invention for—"Improvements in hansom cabs and similar vehicles, parts of which improvements are also applicable to other carriages." *Letters Patent sealed.*

STANSBURY. 19th April 1856.

939. CHARLES FREDERICK STANSBURY, of the American and European Patent Offices, 67, Gracechurch Street, London, for an invention for—"A new instrument for determining the position and bearing of ships at sea."—*A communication.* *Letters Patent sealed.*

ADKINS. 19th April 1856.

940. WILLIAM ADKINS, of Smallbrook Street, Birmingham, in the County of Warwick, Draper, for—"An invention for measuring fabrics, which he proposes designating the automaton measurer or drapers' assistant." *Letters Patent sealed.*

WILKES. 19th April 1856.

941. THOMAS WILKES, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"A new or improved method of manufacturing tubes of copper and alloys of copper." *Letters Patent sealed.*

VARILLAT. 19th April 1856.

942. WILLIAM JEAN JULES VARILLAT, of Rouen, in the Empire of France, for an invention for—"Improvements in the apparatus for the extraction of colouring, tanning, and saccharine matters, from vegetable substances." *Provisional protection only.*

HAZARD. 19th April 1856.

943. ROBERT HAZARD, of No. 1, Thanet Place, Strand, in the County of Middlesex, Warming and Ventilating Engineer, for an invention for—"A heat extractor for extracting the heat from the smoke or heated gases in its passage from boilers, stoves, or furnaces, to the chimney, and rendering the economized heat available for drying and warming purposes." *Provisional protection only.*

LONGBOTTOM. 19th April 1856.

944. ABRAM LONGBOTTOM, of Moorgate Street, in the City of London, and of Baltimore, in the United States of America, Engineer, for an invention for—"Improved means of lighting and ventilating mines." *Provisional protection only.*

CROSLEY. GOLDSMITH. 19th April 1856.

945. WILLIAM CROSLEY, of No. 16, Westbourne Park, in the County of Middlesex, and 103, Southwark Bridge Road, in the County of Surrey, Gas Meter Manufacturer, and GEORGE GOLDSMITH, of Leicester, in the County of Leicester, Gas Meter Inspector, for an invention for—"Improvements in wet gas meters." *Letters Patent sealed.*

BOUWENS. 19th April 1856.

946. FRANÇOIS JEAN BOUWENS, of Malines, in the Kingdom of Belgium, Architect, for an invention for—"A new rotative steam-engine."—*Letters Patent sealed.*

HEYNS. 21st April 1856.

947. PATRICK HEYNS, of Poplar, County of Middlesex, Cooper, for an invention for—"Improvements in railway wheels." *Provisional protection only.*

NASMYTH. MINTON. 21st April 1856.

948. JAMES NASMYTH, of Patricroft, near Manchester, in the County of Lancaster, Engineer, and HERBERT MINTON, of Stoke-upon-Trent, in the County of Stafford, China Manufacturer, for an invention for—"Certain improvements in machinery or apparatus employed in manufacturing tiles, bricks, and other articles, from pulverized clay." *Letters Patent sealed.*

MELLOR. YOUNG. 21st April 1856.

949. SAMUEL MELLOR, of Salford, in the County of Lancaster, Mechanic, and THOMAS YOUNG, of the City of Manchester, Tobacco Manufacturer, for an invention for—"Certain improvements in machinery for supplying water to steam-boilers." *Letters Patent sealed.*

DORTET. 21st April 1856.

950. JULES DORTET, Gentleman, of Paris, in the French Empire, for an invention for—"An improved padlock." *Provisional protection only.*

OWEN. 21st April 1856.

951. WILLIAM OWEN, of Lincoln's Inn Fields, London, for an invention for—"Improvements in the modes of attaching buttons to wearing-apparel." *Provisional protection only.*

CHAMBOR. 21st April 1856.

952. JOSEPH AUGUSTE MARIE TOUËT CHAMBOR, of Paris, in the Empire of France, for an invention for—"Improvements in fireplaces." *Letters Patent sealed.*

MAUGHAM. 21st April 1856.

953. WILLIAM MAUGHAM, of Ifield Terrace, Stockwell, in the County of Surrey, for an invention for—"An improvement in the preparation or manufacture of starch." *Letters Patent sealed.*

HANSOR. 21st April 1856.

954. JAMES HANSOR, of 2, Portland Place, Wandsworth Road, in the County of Surrey, Practical Chemist, for an invention for—"Improvements in the manufacture of illuminating gas." *Letters Patent sealed.*

CANTELO.
22nd April 1856.

955. WILLIAM JAMES CANTELO, of Southwark, in the County of Surrey, Gentleman, for an invention for—"Improvements in the preservation of vegetable matters." *Letters Patent sealed.*

STROUD.
22nd April 1856.

956. JOHN THOMAS STROUD, of Suffolk Street, Birmingham, in the County of Warwick, for an invention for—"Improvements in stop cocks or taps for regulating or cutting off the passage of gas to combined gas-burners."—*Provisional protection only.*

SYMONS.
BURGESS.
22nd April 1856.

957. ALEXANDER SYMONS, of George Street, Mansion House, in the City of London, and EDWARD BURGESS, of Clerkenwell Green, in the County of Middlesex, for an invention for—"Improvements in instruments for ascertaining and indicating heat, and also in the parts for making and breaking contact in electric circuits used therewith." *Letters Patent sealed.*

SYMONS.
BURGESS.
22nd April 1856.

958. ALEXANDER SYMONS, of George Street, Mansion House, in the City of London, and EDWARD BURGESS, of Clerkenwell Green, in the County of Middlesex, for an invention for—"Improvements in apparatus for producing alarums to indicate burglary, by means of electricity." *Letters Patent sealed.*

VIMONT.
22nd April 1856.

959. AUGUSTIN SIMEON VIMONT, Practical Engineer, of Vire (Calvados), in the Empire of France, for an invention for—"A new system of machine for spinning wool and any other fibrous material." *Letters Patent sealed.*

NEWTON.
22nd April 1856.

960. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"A new method of obtaining purified oil from coal shale and other bituminous substances."—*A communication from Alfred Ely Beach, of New York.* *Letters Patent sealed.*

BROWN.
BROWN.
22nd April 1856.

961. PETER BROWN, of Liverpool, in the County of Lancaster, Corn Merchant, and GEORGE BROWN, of the same place, Corn Merchant, for an invention for—"Improved apparatus applicable to furnaces, fire-grates, fireplaces, or stoves, for the purpose of economizing fuel and heat." *Provisional protection only.*

SMITH.
22nd April 1856.

962. WILLIAM SMITH, of Woolston, Fenny Stratford, for an invention for—"Improvements in constructing and applying windlasses for working ploughs and other agricultural implements." *Letters Patent sealed.*

NICKELS.
HOBSON.
22nd April 1856.

963. CHRISTOPHER NICKELS, of the Albany Road, Camberwell, in the County of Surrey, and JAMES HOBSON, of Leicester, for an invention for—"An improvement in machinery for weaving carpets and terry fabrics." *Letters Patent sealed.*

LLOYD.
22nd April 1856.

964. DAVID LLOYD, of the Ebbw Vale Iron Works, South Wales, Engineer, for an invention for—"Improvements in washing minerals, coal, and ores." *Letters Patent sealed.*

JEACOCK.
22nd April 1856.

965. THOMAS JEACOCK, of 20, Bridge Street, Leicester, for an invention for—"An improvement in knitting-machinery." *Letters Patent sealed.*

BLACKWELL.
22nd April 1856.

966. THOMAS EVANS BLACKWELL, of 1, Cornwallis Grove, Clifton, for an invention for—"An improvement in treating water for the use of brewers." *Provisional protection only.*

ARMSTRONG.
22nd April 1856.

967. WILLIAM GEORGE ARMSTRONG, of Newcastle-upon-Tyne, in the County of Northumberland, Civil Engineer, for an invention for—"Improvements in apparatus for lifting, lowering, and hauling." *Letters Patent sealed.*

BROOMAN.
22nd April 1856.

968. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent Agent, for an invention for—"Improvements in or connected with centrifugal machinery."—*A communication.* *Letters Patent sealed.*

MYERS.
MYERS.
23rd April 1856.

969. ISAAC MYERS, and GEORGE MYERS, of Rotherham, in the County of York, for an invention for—"An improved 'fire-lighter.'" *Provisional protection only.*

FORSTER.
23rd April 1856.

970. GEORGE FORSTER, of Standish, near Wigan, in the County of Lancaster, Colliery Viewer, for an invention for—"Certain improvements in the arrangement of 'trap doors' or 'air doors' and their cases in the workings or passages in mines, whereby the efficient ventilation is maintained, which said improvements are also applicable in other similar situations." *Letters Patent sealed.*

BULLOUGH.
23rd April 1856.

971. ADAM BULLOUGH, of Blackburn, in the County of Lancaster, Manufacturer, for an invention for—"Improvements in looms." *Provisional protection only.*

GARNETT. 23rd April 1856.

972. JAMES GARNETT, of Low Moor, Clitheroe, in the County of Lancaster, Cotton Spinner, for an invention for—"Improvements in twisting, winding, and reeling yarn, and in machinery or apparatus employed therein." *Letters Patent sealed.*

SAVAGE. 23rd April 1856.

973. WILLIAM PEACOCK SAVAGE, of Roxham, in the County of Norfolk, Farmer, for an invention for—"A machine for drilling and rolling land." *Letters Patent sealed.*

SQUIRE. CLAUS. 23rd April 1856.

974. THOMAS SQUIRE, of Latchford, in the County of Chester, Tanner, and CHARLES FREDERICK CLAUS, of the same place, Practical Chemist, for an invention for—"Improvements in the manufacture of artificial manure."—*Letters Patent sealed.*

PERRING. 23rd April 1856.

975. JOHN SHAE PERRING, of Radcliffe, in the County of Lancaster, Civil Engineer, for an invention for—"Improvements in chairs for railways." *Letters Patent sealed.*

BALMAIN. COLBY. 23rd April 1856.

976. WILLIAM HENRY BALMAIN, of Saint Helen's, in the County of Lancaster, Manufacturing Chemist, and THOMAS COLBY, of the same place, Practical Chemist, for an invention for—"Improvements in the manufacture of alkalies from their sulphates." *Letters Patent sealed.*

BARBOUR. 23rd April 1856.

977. JAMES BARBOUR, of Glasgow, in the County of Lanark, North Britain, Joiner, for an invention for—"Improvements in sawing-apparatus." *Letters Patent sealed.*

WARD. 23rd April 1856.

978. PETER WARD, of the Patent Alkali Works, Saint Helen's, Lancashire, for an invention for—"An improvement in furnaces used in the manufacture of alkali." *Provisional protection only.*

BROWN. 23rd April 1856.

979. DAVID BROWN, of Smethwick, in the County of Stafford, Machinist, for an invention for—"A new or improved method of joining the rails of railways." *Provisional protection only.*

STOCKER. 24th April 1856.

980. ALEXANDER SOUTHWOOD STOCKER, of 11, Poultry, Cheapside, in the City of London, Manufacturer, for an invention for—"Improvements in the application of certain materials to the manufacture of ink and other stands and other articles, and in the manufacture and finishing of articles produced out of such or other material or materials." *Letters Patent sealed.*

SCHRATZ. 24th April 1856.

981. ABEL DÉSIRÉ SCHRATZ, of Saint Denis, near Paris, in the Empire of France, Chemist, for an invention for—"Improvements in preparing colours for the impression of woven or textile fabrics or stuffs of any kind." *Letters Patent sealed.*

YEOMANSON. YEOMANSON. 24th April 1856.

982. JOHN YEOMANSON, and WILLIAM YEOMANSON, both of Leicester, Manufacturers of Hosiery, for an invention for—"Improvements in the manufacture of knitted fabrics." *Letters Patent sealed.*

WOODCOCK. PUNSHON. 24th April 1856.

983. THOMAS WOODCOCK, and JOHN KILLINGWORTH PUNSHON, both of 26, Great Ormond Street, in the County of Middlesex, for an invention for—"A machine for cutting and slicing bread and other substances." *Provisional protection only.*

ASHWORTH. 24th April 1856.

984. GEORGE ASHWORTH, of Sunny Bank Mills, Rochdale, in the County of Lancaster, Woollen Manufacturer, for an invention for—"Improvements in machinery for preparing slivers or slubbings of wool and other fibrous materials,—commonly called condensing carding-engines." *Provisional protection only.*

COWPER. 24th April 1856.

985. CHARLES COWPER, of No. 20, Southampton Buildings, Chancery Lane, in the County of Middlesex, Patent Agent, for an invention for—"A new yarn or thread and its application in the manufacture of stockings, gloves, and looped and other fabrics."—*A communication.* *Provisional protection only.*

ALLMAN. BETHUNE. 24th April 1856.

986. FENNELL ALLMAN, of Cambridge Terrace, Hyde Park, London, Consulting Engineer, and DONALD BETHUNE, of the same place, Esquire, for an invention for—"Certain improvements in apparatus for the production of steam, and in the apparatus employed in its application to motive purposes." *Provisional protection only.*

DOAT. 24th April 1856.

987. VICTOR DOAT, of Albi, in the French Empire, Gentleman, for an invention for—"An improved galvanic battery, and method of recovering and revivifying the agents employed." *Letters Patent sealed.*

NEILSON. 24th April 1856.

988. WALTER NEILSON, of Glasgow, in the County of Lanark, North Britain, Engineer, for an invention for—"Improvements in locomotive engines." *Letters Patent sealed.*

BLACKET. 24th April 1856.

889. FRANK WILLIAM BLACKET, of West Smithfield, in the City of London, Draper, for an invention for—"An improvement in the construction of keys and locks, and in the fitting of locks to afford increased safety." *Letters Patent sealed.*

MOORE. 24th April 1856.

890. THOMAS MOORE, of Retford, in the County of Nottingham, Engineer, for an invention for—"Improvements in machinery for riddling and winnowing or cleaning corn and other grain." *Provisional protection only.*

NAAR. 25th April 1856.

891. WILLIAM NAAR, of Glasgow, in the County of Lanark, North Britain, Upholsterer, for an invention for—"Improvements in folding or adjustable articles of furniture." *Provisional protection only.*

ELLIOT. PATTINSON. 25th April 1856.

892. GEORGE ELLIOT, of Newcastle-on-Tyne, and WILLIAM WATSON PATTINSON, of Newcastle-on-Tyne, for an invention for—"Improvements in the production of peroxide of manganese." *Provisional protection only.*

HARDACRE. 25th April 1856.

893. JAMES HARDACRE, of the City of Manchester, in the County of Lancaster, Engineer, for an invention for—"Improvements in the arrangement and construction of carriages and carriage wheels." *Letters Patent sealed.*

SWIFT. DERHAM. 25th April 1856.

894. CHARLES SWIFT, and JOHN JAMES DERHAM, of Blackburn, in the County of Lancaster, Engineers, for an invention for—"Improvements in steam-engines." *Letters Patent sealed.*

FRAÉTANIEL. 25th April 1856.

895. ISAËE DANIEL FRAÉTANIEL, of Paris (France), Proprietor, for an invention for—"An improved safety rein or bridle." *Letters Patent sealed.*

GOSSAGE. 25th April 1856.

896. WILLIAM GOSSAGE, of Widnes, in the County of Lancaster, Chemist, for an invention for—"Improvements in the manufacture of sulphuric acid." *Letters Patent sealed.*

LAKIN. THOMPSON. FITTON. FITTON. 25th April 1856.

897. ROBERT LAKIN, of Stretford, in the County of Lancaster, Machinist, JOHN THOMPSON, of Ardwick, in the City of Manchester, in the said County, Foreman, EDWARD GERRARD FITTON, of Ardwick aforesaid, Foreman, and FREDERICK ALEXANDER FITTON, of Ardwick aforesaid, Mechanic, for an invention for—"Improvements in or applicable to certain machines for preparing and spinning cotton and other fibrous substances, some of which improvements relating to apparatus for lubricating and to the construction of studs are also applicable to machinery for other purposes." *Letters Patent sealed.*

HILL. 26th April 1856.

898. THOMAS HILL, of Heywood, in the County of Lancaster, Boiler Manufacturer, for an invention for—"Improvements in steam-boilers and furnaces connected therewith." *Letters Patent sealed.*

LAWES. 26th April 1856.

899. THOMAS LAWES, of 32, City Road, in the County of Middlesex, Feather Merchant, for an invention for—"Improvements in the construction and manufacture of an implement used in tilling the land." *Provisional protection only.*

TOPHAM. 26th April 1856.

1000. EDMUND TOPHAM, of Mansfield Road, Nottingham, in the County of Nottingham, for an invention for—"Apparatus for cleansing out the sediment from the water in steam-boilers, and preventing incrustation of the same."—*Letters Patent sealed.*

HILLES. 26th April 1856.

1001. MALCOLM WILLIAM HILLES, of Percy Street, Bedford Square, in the County of Middlesex, Surgeon, for an invention for—"Improved apparatus applicable to the treatment and cure of rupture, prolapsus uteri, and other protrusions of the viscera." *Provisional protection only.*

NEWTON. 26th April 1856.

1002. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improved machinery for manufacturing painted or enamelled cloth."—*A communication.* *Letters Patent sealed.*

ARNAUD. 26th April 1856.

1003. CLAUDE ANTOINE ARNAUD, of Lyons, in the Empire of France, Manager of the Company called "La Rotative," for an invention for—"Improvements in obtaining motive-power from steam and other fluids, and in pumping and forcing water and other fluids."—*A communication.* *Letters Patent sealed.*

WALKER. 26th April 1856.

1004. THOMAS WALKER, of Warwick Place, Pimlico, in the County of Middlesex, for an invention for—"Improvements in playing cards." *Letters Patent sealed.*

VACHEROT. 26th April 1856.

1005. ALEXANDRE VACHEROT, of Paris, in the Empire of France, Architect, for an invention for—"Improvements in the construction of submarine tunnels."
Provisional protection only.

HEIFFOR. 26th April 1856.

1006. THOMAS HEIFFOR, of Sheffield, in the County of York, Manufacturer, for an invention for—"An improved method of manufacturing razor blades."
Letters Patent sealed.

NAPIER. MILLAR. 28th April 1856.

1007. GEORGE NAPIER, of Bath Street, Glasgow, in the County of Lanark, and of the Adelphi, in the County of Middlesex, and JOHN MILLAR, of Cavendish Street, Glasgow, in the County of Lanark, for an invention for—"Improvements in the manufacture of gas from coal tar or other bituminous, resinous, or fatty matter."
Provisional protection only.

DUBOS. 28th April 1856.

1008. JEAN CHARLES BERTRAND DUBOS, Chemist, of Paris, Town in the French Empire, for an invention for—"An improved electro-magnetic apparatus."
Provisional protection only.

RESTELL. 28th April 1856.

1009. THOMAS RESTELL, of New Kent Road, in the County of Surrey, Chronometer Maker, for an invention for—"Improvements in fittings or appendages for doors, and in the means of fixing or attaching the same." *Letters Patent sealed.*

GEERING. 28th April 1856.

1010. HENRY GEERING, of Birmingham, in the County of Warwick, Bedsmith, for an invention for—"An improvement or improvements in metallic bedsteads, chairs, couches, and other articles for sitting, lying, or reclining upon."
Provisional protection only.

RUCK. 28th April 1856.

1011. WILLIAM DENNY RUCK, of Topping's Wharf, Tooley Street, for an invention for—"An improvement in tanning hides and skins." *Letters Patent sealed.*

GRAFTIAUX. 29th April 1856.

1012. CHARLES JOSEPH GRAFTIAUX, of Molenbeck St. Jean, by Brussels, in the Kingdom of Belgium, Mechanician, for an invention for—"Improvements in rotatory steam-engines." *Provisional protection only.*

HICK. 29th April 1856.

1013. JOHN HICK, of Bolton-le-Moors, in the County of Lancaster, Engineer, for an invention for—"Apparatus for equalizing the temperature of the water in that kind of steam-boilers generally called multitubular boilers." *Letters Patent sealed.*

CROSLAND. 29th April 1856.

1014. JAMES STEAD CROSLAND, of Openshaw, near the City of Manchester, Engineer, for an invention for—"Certain improvements in furnaces and steam generators for locomotive steam-engines and other purposes." *Letters Patent sealed.*

GREENSHIELDS. 29th April 1856.

1015. THOMAS GREENSHIELDS, of No. 11, Little Titchfield Street, London, for an invention for—"Improvements in sleepers for railways." *Letters Patent sealed.*

TITTERTON. 29th April 1856.

1016. CHARLES TITTERTON, of Roehampton, in the County of Surrey, for an invention for—"An improvement in the manufacture of white zinc."
Provisional protection only.

RAMMELL. 29th April 1856.

1017. THOMAS WEBSTER RAMMELL, of Trafalgar Square, in the County of Middlesex, for an invention for—"Improvements in pen and pencil holders."
Letters Patent sealed.

BOSS. 29th April 1856.

1018. ISAAC ABRAHAM BOSS, of Bury Street, in the City of London, for an invention for—"Improvements in preparing cane in order to render it suitable to be used as a substitute for whalebone."—*A communication.* *Letters Patent sealed.*

PILLING. 29th April 1856.

1019. WILLIAM PILLING, of Oldham, in the County of Lancaster, Manager, for an invention for—"An improvement in the treatment of yarns or threads, and in the apparatus connected therewith." *Letters Patent sealed.*

JOHNSON. 29th April 1856.

1020. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in anchors."—*A communication from Louis Frederic François David, of Havre, in the Empire of France, Chain Manufacturer.* *Letters Patent sealed.*

SMITH. CRAVEN. 30th April 1856.

1021. JOHN SMITH, of Collyhurst, near the City of Manchester, Dyer and Finisher, and WILLIAM CRAVEN, of the same place, Engineer, for an invention for—"Certain improvements in machinery or apparatus for dressing, machining, and finishing velvets, velveteens, and other fabrics." *Letters Patent sealed.*

SPILSBURY. 30th April 1856.

1022. FRANCIS GYBBON SPILSBURY, of Chaudfontaine, in the Kingdom of Belgium, and of 56, Stones End, Borough of Southwark, near London, Gentleman, for an invention for—"Separating metals, metallic oxydes, and metallic acids from their ores." *Provisional protection only.*

DYER. 30th April 1856.

1023. SAMUEL DYER, of the City of Bristol, Shipowner, for an invention for—"Improvements in reefing, furling, and setting the sails of ships and vessels." *Letters Patent sealed.*

RIGBY. 30th April 1856.

1024. JOSEPH RIGBY, of Ashton-under-Lyne, in the County of Lancaster, Mechanic, for an invention for—"Improvements in machinery for grinding or sharpening the card cylinders and rollers of carding-engines." *Letters Patent sealed.*

MANEVY. 30th April 1856.

1025. LOUIS JEAN BAPTISTE MANEVY, of Paris, in the Empire of France, for an invention for—"Certain improvements in manufacturing cast steel." *Letters Patent sealed.*

JONES. 30th April 1856.

1026. WRIGHT JONES, of Pendleton, in the County of Lancaster, Engineer, for an invention for—"Improvements in apparatus for regulating the pressure and flow of steam, water, and other fluids." *Letters Patent sealed.*

NEWTON. 30th April 1856.

1027. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"An improved method of and machinery for polishing the surface of glass, stone, metal, or other materials capable of being polished by friction."—*A communication from Albert Broughton, Alexander Lindsay, and John Ruthven Platt, all of New York, in the United States of America.* *Letters Patent sealed.*

DEFRIES. BACHHOFFNER. 1st May 1856.

1028. NATHAN DEFRIES, of Fitzroy Square, in the County of Middlesex, and GEORGE HENRY BACHHOFFNER, of Montague Street, in the County of Middlesex, for an invention for—"Improvements in gas fires." *Letters Patent sealed.*

MAPPLE. 1st May 1856.

1029. HENRY MAPPLE, of Child's Hill, in the County of Middlesex, Parish of Hendon, Electric Engineer, for an invention for—"Barometers."—*Letters Patent sealed.*

NEWTON. 1st May 1856.

1030. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"An improved preparation of phosphoric acid."—*A communication from Eben Norton Horsford, of the State of Massachusetts, in the United States of America.—Provisional protection only.*

PERRON. BOULLAND. 1st May 1856.

1031. CLAUDE PERRON, and VICTOR BOULLAND, of Paris, in the Empire of France, for an invention for—"An improved knitting-machine." *Provisional protection only.*

CAREY. 1st May 1856.

1032. STEPHEN CAREY, of Clink Street Wharf, Bankside, Southwark, in the County of Surrey, Contractor, for an invention for—"Improvements in water carts and barrows." *Letters Patent sealed.*

BROOMAN. 1st May 1856.

1033. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent Agent, for an invention for—"Improvements in compressing, regulating the pressure and flow of and conveying gas;—parts of which are applicable to air and other fluid pumps."—*A communication from P. Hugon, of Paris.—Letters Patent sealed.*

BROOMAN. 1st May 1856.

1034. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent Agent, for an invention for—"Improvements in machinery for felting or 'planking' hat bodies."—*A communication.* *Letters Patent sealed.*

PATERSON. 1st May 1856.

1035. ALEXANDER JOHN PATERSON, of Upper Eaton Street, in the County of Middlesex, Gentleman, for an invention for—"An improvement in or connected with hawsers and other ropes or chains used in towing vessels."—*Provisional protection only.*

SMITH. 1st May 1856.

1036. NATHANIEL SMITH, of Thrapston, in the County of Northampton, Engineer, for an invention for—"Improvements in clod-crushing rollers, parts of which are applicable to other descriptions of rollers." *Letters Patent sealed.*

SMITH. 1st May 1856.

1037. AUGUSTUS SMITH, of Wentworth Street, in the County of Middlesex, Brush Manufacturer, for an invention for—"Treating vegetable fibres in order to fit them for use as a substitute for bristles in paint and other brushes." *Letters Patent sealed.*

HUNTER. 1st May 1856.

1038. SAMUEL HUNTER, of 13, Ravensworth Terrace, Gateshead, and Dock Anchor Works, Hartlepool, for an invention for—"An improvement in anchors." *Letters Patent sealed.*

COWLEY. 2nd May 1856.

1039. JOHN COWLEY, of Quenington, in the County of Gloucester, for an invention for—"Improvements in the manufacture of paper from straw and other vegetable substances." *Provisional protection only.*

PEARCY. 2nd May 1856.

1040. RICHARD PEARCY, of Manchester, in the County of Lancaster, Machinist, for an invention for—"Improvements in machinery or apparatus for twisting cotton and other fibrous substances." *Letters Patent sealed.*

WAITE. 2nd May 1856.

1041. WILLIAM WAITE, of Number 156, Cheapside, in the City of London, and of Number 13, Commercial Street, Leeds, in the County of York, for an invention for —"An improvement in the construction of sleepers and rails for railways." *Provisional protection only.*

NAYLOR. 2nd May 1856.

1042. WILLIAM NAYLOR, of the City of Norwich, Engineer, for an invention for —"Improvements in power hammers and rivetting machines, parts of such improvements being applicable to the manufacture of bolts or rivets." *Letters Patent sealed.*

DAY. 2nd May 1856.

1043. WILLIAM DAY, of Campbell Road, Bow Road, in the County of Middlesex, for an invention for—"Improvements in clod-crushers or rollers for rolling, pulverizing, or pressing land." *Provisional protection only.*

GORDON. 2nd May 1856.

1044. ALEXANDER GORDON, of Fludyer Street, Whitehall, for an invention for— "Improvements in evaporating, boiling, or distilling fluids, and generating steam." *Letters Patent sealed.*

BROWN. 2nd May 1856.

1045. HENRY EDWARD BROWN, of No. 2, Summer Street North, in the City of Dublin, for an invention for—"Improvements in the description of hinges denominated concealed hinges for carriage doors and doors of every description." *Letters Patent sealed.*

ROOKE. 2nd May 1856.

1046. SAMUEL ROOKE, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"A new or improved manufacture of stair rods." *Letters Patent sealed.*

BROOMAN. 2nd May 1856.

1047. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent Agent, for an invention for—"Improvements in machinery for bending or shaping timber."—*A communication.* *Provisional protection only.*

THOMPSON. 2nd May 1856.

1048. HENRY ATWOOD THOMPSON, of Lewes, in the County of Sussex, Agricultural Implement Manufacturer, for an invention for—"Improvements in hay-making machines." *Letters Patent sealed.*

CAMPBELL. 2nd May 1856.

1049. ROBERT TOLMIE CAMPBELL, of Washington City, in the United States of America, but now of 67, Gracechurch Street, London, for an invention for—"Improvements in machines for reaping and mowing."—*A communication.* *Letters Patent sealed.*

FONTAINEMOREAU. 3rd May 1856.

1050. PETER ARMAND LE COMTE DE FONTAINEMOREAU, of 39, Rue de l'Echiquier, Paris, in the Empire of France, and of 4, South Street, Finsbury, London, for an invention for—"Improvements in electric telegraphs."—*A communication from A. J. A. Dumoulin, of Paris.* *Letters Patent sealed.*

WRIGHT. GORRERY. 3rd May 1856.

1051. JOHN WRIGHT, and THOMAS GORRERY, Manufacturers, both of Sheffield, in the County of York, for an invention for—"Improvements in railway carriage and other springs." *Provisional protection only.*

THOMAS. 3rd May 1856.

1052. EVAN THOMAS, of Holywell Street, Millbank, in the City of Westminster, Clock Maker, for an invention for—"Improvements in the construction of counting apparatus for ascertaining and indicating the number of rotations made by shafts or spindles in various descriptions of machinery." *Provisional protection only.*

CUNNINGHAM. 3rd May 1856.

1053. HENRY DUNCAN PRESTON CUNNINGHAM, of Gosport, in the County of Hants, Esquire, for an invention for—"Certain apparatus to be applied to boats to increase their buoyancy and stability." *Provisional protection only.*

GARSIDE. 3rd May 1856.

1054. WRIGHT GARSIDE, of Vicar Street, Kidderminster, in the County of Worcester, for an invention for—"A new and improved method of letting off the worsted or yarn from the bobbins employed in weaving carpets and other similar fabrics in which bobbins are employed during the manufacture thereof." *Letters Patent sealed.*

BLOOMER.
5th May 1856.

1055. CALEB BLOOMER, of West Bromwich, in the County of Stafford, Chain and Anchor Manufacturer, for an invention for—"Improvements in the manufacture of spikes and bolts." *Provisional protection only.*

WILLIAMS.
5th May 1856.

1056. GEORGE WILLIAMS, of No. 16, Cannon Street, Saint George's in the East, Plumber, for an invention for—"Improvements in fog and dark night alarm signals." *Provisional protection only.*

BULMER.
SHARP.
5th May 1856.

1057. WILLIAM BULMER, of Middlesboro', in the County of York, Agent for the manufacture of bricks and tiles, and ISAAC SHARP, of the same place, Land Agent, for an invention for—"Improvements in the manufacture of bricks, tiles and other articles, from plastic substances." *Letters Patent sealed.*

HOLDEN.
5th May 1856.

1058. ISAAC HOLDEN, of St. Denis, near Paris, in the Empire of France, Wool Comber, for an invention for—"Improvements in preparing and combing wool and other fibrous substances." *Letters Patent sealed.*

CHADBURN.
5th May 1856.

1059. ALFRED CHADBURN, of Sheffield, in the County of York, Optician, for an invention for—"An improved construction of pressure gauge."—*Letters Patent sealed.*

GREGORY.
5th May 1856.

1060. WILLIAM GREGORY, of Old Church Street, Paddington, in the County of Middlesex, Building Surveyor, for an invention for—"An improvement in the construction of roofing tiles." *Letters Patent sealed.*

BEUDANT.
BENOIT.
6th May 1856.

1061. AMEDÉE LOUIS BEUDANT, and JEAN LOUIS MARIE PAUL BENOIT, Engineers, of Paris, in the French Empire, for an invention for—"Certain improvements in treating ores of copper containing arsenic and antimony." *Letters Patent sealed.*

BLAKE.
6th May 1856.

1062. OBED BLAKE, of the Thames Plate Glass Works, Blackwall, in the County of Middlesex, Manager, for an invention for—"Improvements in applying practically the principle of internal reflection within transparent substances." *Letters Patent sealed.*

WRIGHT.
6th May 1856.

1063. JOHN WRIGHT, of Upnor, near Rochester, in the County of Kent, Civil Engineer, for an invention for—"Improvements in apparatus for lowering ships' boats." *Letters Patent sealed.*

CURTIS.
6th May 1856.

1064. WILLIAM JOSEPH CURTIS, of 1, Sebbon Street, Islington, for an invention for—"Improvements in constructing the permanent ways of railways." *Provisional protection only.*

NEWTON.
6th May 1856.

1065. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improved apparatus for connecting boats with their tackle and clearing or detaching them therefrom when lowered from on board ship into the water."—*A communication.* *Letters Patent sealed.*

NEWTON.
6th May 1856.

1066. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improved machinery for making envelopes."—*A communication.* *Letters Patent sealed.*

HUCKVALE.
6th May 1856.

1067. THOMAS HUCKVALE, of Choice Hill, Chipping Norton, Oxon, for an invention for—"Improvements in instruments for thinning and hoeing turnips and other crops." *Letters Patent sealed.*

BROOMAN.
6th May 1856.

1068. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent Agent, for an invention for—"A method of treating guano and other matters containing uric acid, and the manufacture from the products arising from such treatment as well as from uric acid of new colouring matters, and the fixing and application thereof."—*A communication.* *Letters Patent sealed.*

FURNEVALL.
7th May 1856.

1069. JOHN FURNEVALL, of Haslingden, in the County of Lancaster, Iron Founder, for an invention for—"Certain improvements in the construction of valves." *Provisional protection only.*

MARTIN.
NEWMAN.
7th May 1856.

1070. GEORGE MARTIN, of 6, Windmill Terrace, Camberwell, and ALFRED LODWICK NEWMAN, of New Church Street, Bermondsey, for an invention for—"Improvements in freeing or purifying animal fibres from admixture with vegetable matters." *Provisional protection only.*

CURTIS.
7th May 1856.

1071. WILLIAM JOSEPH CURTIS, of 1, Sebbon Street, Islington, Civil Engineer, for an invention for—"Improvements in carriages to run on rail or tram ways and common roads." *Letters Patent sealed.*

HEATON.
HEATON.
HEATON.
7th May 1856.

1072. RALPH HEATON the younger, of Birmingham, in the County of Warwick, and HARRY HEATON, of Birmingham aforesaid, and GEORGE HEATON, of Birmingham aforesaid, Manufacturers and Copartners, for an invention for—"A new or improved manufacture of balance weights used for counterbalancing pendant lamps and chandeliers and for other like purposes." *Letters Patent sealed.*

BELL.
BLACK.
7th May 1856.

1073. SAMUEL ALEXANDER BELL, and JOHN BLACK, of Bow Lane, in the City of London, Vesta Light and Match Manufacturers, for an invention for—"An improved method of and preparation for igniting matches."—*Provisional protection only.*

PÉRINAUD.
7th May 1856.

1074. JEAN PÉRINAUD, Dyer, of Paris, Town in the French Empire, for an invention for—"Certain improvements in preparing or dressing silks." *Letters Patent sealed.*

ROYDS.
7th May 1856.

1075. ROBERT ROYDS, of Southampton, in the County of Hants, Engineer, for an invention for—"An improvement or improvements in the manufacture of soap." *Letters Patent sealed.*

PERREAUX.
8th May 1856.

1076. LOUIS GUILLAUME PERREAUX, of 16, Rue M. le Prince, in the City of Paris, in the Empire of France, Engineer, for an invention for—"An improved valve." *Letters Patent sealed.*

SCHNEIDER.
LEISS.
8th May 1856.

1077. CHARLES SCHNEIDER, and FREDERICK LEISS, of Hess Darmstadt, Germany, now residing at 110, Strand, in the County of Middlesex, for an invention for—"Manufacturing a safety boiling apparatus." *Provisional protection only.*

MAYER.
8th May 1856.

1078. LOUIS FREDERIC MAYER, of 133, Regent Street, in the County of Middlesex, for an invention for—"Improvements in photography." *Letters Patent sealed; no specification filed.*

RIDDLE.
BOYD.
8th May 1856.

1079. ALEXANDER EBENEZER RIDDLE, of 33, Walbrook, City, and ISAAC HOARE BOYD, of 3½, Mansion House Place, City, for an invention for—"Improvements in tanning by machinery and chemicals."—*A communication from George Fenner, Kendall.* *Letters Patent sealed.*

NIVEN.
8th May 1856.

1080. JAMES NIVEN, of Keir, in the County of Perth, North Britain, Gentleman, for an invention for—"Improvements in the manufacture of paper and in the production of textile materials." *Provisional protection only.*

LAWRIE.
8th May 1856.

1081. JAMES GRAY LAWRIE, of Glasgow, for an invention for—"Improvements in steam-engines." *Letters Patent sealed.*

AMORY.
8th May 1856.

1082. JONATHAN AMORY, of Boston, Massachusetts, United States of America, for an invention for—"Improvements in furnaces for locomotive and other steam-boilers, which improvements are applicable to reverberatory and puddling furnaces, and to furnaces for heating buildings." *Letters Patent sealed.*

FINZELL.
NEEDHAM.
BARTON.
8th May 1856.

1083. CONRAD WILLIAM FINZELL, of Bristol, Sugar Refiner, WILLIAM NEEDHAM, of Smallbury Green, in the County of Middlesex, Manufacturer, and JOHN BARTON, of Shoe Lane, in the City of London, Engineer, for an invention for—"Improvements in apparatus for filtering sugar and saccharine juices." *Letters Patent sealed.*

BROOMAN.
8th May 1856.

1084. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent Agent, for an invention for—"Improvements in machinery for felting or sizing hat bodies."—*A communication.* *Letters Patent sealed.*

ALLIOTT.
8th May 1856.

1085. ALEXANDER ALLIOTT, of the Park, Nottingham, Engineer, for an invention for—"Improvements in drying apparatus." *Letters Patent sealed.*

NEWTON.
8th May 1856.

1086. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improved machinery for cutting, punching, and forging or swaging nuts or washers."—*A communication.* *Letters Patent sealed.*

DEVAUX.
8th May 1856.

1087. ALEXANDER CHARLES LOUIS DEVAUX, of King William Street, in the City of London, Merchant, for an invention for—"Improvements in the construction of granaries." *Letters Patent sealed.*

NEWTON.
8th May 1856.

1088. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"An improved construction of rotary pump."—*A communication.* *Letters Patent sealed.*

NEWTON. 8th May 1856.

1089. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"An improvement in bands for securing bales of goods and for other like uses."—*A communication.* *Letters Patent sealed.*

UNDERHILL. 8th May 1856.

1090. STEPHEN WALTER UNDERHILL, Wellfield Cottage, Dunse, Berwickshire, for—"An invention for the preservation of life in cases of shipwreck or other casualty at sea—'The buoyant cushion.'" *Letters Patent sealed.*

JARDIN. BLAMOND. 9th May 1856.

1091. LÉON LOUIS JARDIN and JOSEPH BLAMOND, of 39, Rue de l'Echiquier, Paris, and 4, South Street, Finsbury, London, Engravers, for an invention for—"Certain improvements in engraving on stone, earthenware, china, and glass, and also in ornamenting the same." *Letters Patent sealed.*

BAYLISS. 9th May 1856.

1092. WILLIAM BAYLISS, of the firm of W. & M. Bayliss & Co., Flat and Round Chain Manufacturers, of Wolverhampton, in the County of Stafford, for an invention for—"Improvements in chains for collieries, cables, and other purposes." *Provisional protection only.*

JOHNSON. 9th May 1856.

1093. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in carding-engines for carding cotton and other fibrous materials."—*A communication from George Wellman, of Lowell, in the United States of America.* *Letters Patent sealed.*

HACKWORTH. 9th May 1856.

1094. JOHN WESLEY HACKWORTH, of Priestgate Engine Works, Darlington, in the County of Durham, Engineer, for an invention for—"Improvements in machinery or apparatus for raising and lowering heavy bodies." *Provisional protection only.*

POTTS. VANN. 9th May 1856.

1095. FERDINAND POTTS, Tube Manufacturer, of Birmingham, in the County of Warwick, and THOMAS VANN, Wire Worker, of Cheapside, Birmingham, in the same County, for an invention for—"Certain machinery for ornamenting, floating, burnishing, and polishing metallic tubes;—part of which machinery is also applicable for performing the like operation upon other metallic surfaces."—*Letters Patent sealed.*

JOHNSON. 9th May 1856.

1096. EDWARD DANIEL JOHNSON, of Wilmington Square, in the County of Middlesex, Watchmaker, for an invention for—"An improved mode of mounting marine chronometers." *Letters Patent sealed.*

FIRMIN. 9th May 1856.

1097. GEORGE JORDAN FIRMIN, of Newton-le-Willows, Lancashire, Manufacturing Chemist, for an invention for—"Improvements in the manufacture of sulphuric, tartaric, citric, and oxalic acids, ammonia, and cyanides." *Letters Patent sealed.*

WILEY. 9th May 1856.

1098. WILLIAM EDWARD WILEY, of 34, Great Hampton Street, Birmingham, Pen and Pencil Manufacturer, for an invention for—"Improvements in the manufacture of pens and penholders." *Letters Patent sealed.*

BASFORD. 9th May 1856.

1099. WILLIAM BASFORD, of No. 16, Talbot Road, Kentish Town, in the County of Middlesex, for an invention for—"Improvements in apparatus for purifying coal gas." *Letters Patent sealed.*

BEAUCHÉ. 9th May 1856.

1100. LOUIS BEAUCHÉ, of Offenbach, near Frankfort-on-the-Maine, for an invention for—"A machine for the manufacture of cigars." *Letters Patent sealed.*

SIMPSON. 9th May 1856.

1101. GEORGE SIMPSON, of Leather Lane, London, for an invention for—"Improvements in rotary knife-cleaning machines." *Letters Patent sealed.*

BROOMAN. 9th May 1856.

1102. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent Agent, for an invention for—"An improvement in cranes."—*A communication from Camille Raymond, Neustadt.* *Letters Patent sealed.*

BROOMAN. 9th May 1856.

1103. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent Agent, for an invention for—"Improvements in machinery for the manufacture or finishing of tyres, hoops, and rings."—*A communication from A. Duboy, of Givors.* *Letters Patent sealed.*

LAURENCE. 9th May 1856.

1104. FREDERICK RICHARD LAURENCE, of Southampton Street, in the City of Westminster, Shirt Collar Manufacturer, for an invention for—"An improvement in the manufacture of shirt collars and wristbands." *Letters Patent sealed.*

BROOMAN. 10th May 1856.

1105. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent Agent, for an invention for—"Improvements in machinery for manufacturing tubes and pipes;—applicable also to the rolling of rods and bars."—*A communication.* *Letters Patent sealed.*

BINNS. 10th May 1856.

1106. JOSHUA BINNS, of Dukinfield, in the County of Chester, Spinner and Manufacturer, for an invention for—"Improvements in machinery or apparatus for winding, sizing, and beaming yarns." *Provisional protection only.*

JOHNSON. 10th May 1856.

1107. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in machinery or apparatus for cutting irregular forms."—*A communication from Henry D. Stover, and James W. Bicknell, both of Boston, in the United States of America.* *Letters Patent sealed.*

WALLACE. 10th May 1856.

1108. JAMES WALLACE, junior, of Glasgow, in the County of Lanark, North Britain, Manufacturer, for an invention for—"Improvements in preparing, bleaching, washing, cleansing, and drying textile fabrics and materials, and pulpy substances." *Letters Patent sealed.*

WOTHERSPOON. 10th May 1856.

1109. ROBERT WOTHERSPOON, of Glasgow, in the County of Lanark, North Britain, Hat Manufacturer, for an invention for—"Improvements in hats and other coverings for the head." *Letters Patent sealed.*

JOHNSON. 10th May 1856.

1110. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in drying leather and dressed skins."—*A communication from Messieurs Arthus, Brothers, of Paris, in the Empire of France, Tanners.* *Provisional protection only.*

RIDAL. 10th May 1856.

1111. JOHN RIDAL, of Sheffield, in the County of York, Working Cutler, for an invention for—"Improvements in spring knife handles." *Letters Patent sealed.*

BURKIN. 10th May 1856.

1112. WILLIAM BURKIN, of Neate Street, Old Kent Road, Floor Cloth Maker, for an invention for—"Improved machinery for manufacturing painted cloths." *Provisional protection only.*

BENIOWSKI. 10th May 1856.

1113. BARTHOLOMEW BENIOWSKI, of Bow Street, Covent Garden, in the County of Middlesex, Esquire, for an invention for—"Improvements in typographical composition, and in the manufacture of logotypes to be used therein." *Letters Patent sealed.*

CLAUS. 12th May 1856.

1114. CHARLES FREDERICK CLAUS, of Latchford, in the County of Chester, Practical Chemist, for—"An invention for moistening land, streets, and the better extinction of fires." *Provisional protection only.*

AIMONT. 12th May 1856.

1115. PIERRE ERNEST AIMONT, Manufacturer, of Paris, in the French Empire, for an invention for—"Certain improvements in manufacturing shoes and other coverings for the foot." *Provisional protection only.*

WHYTOCK. 12th May 1856.

1116. RICHARD WHYTOCK, of Edinburgh, for an invention for—"Improvements in apparatus to facilitate the printing of yarns or threads." *Letters Patent sealed.*

DE LA PONTONERIE. 12th May 1856.

1117. EDOUARD BESNIER DE LA PONTONERIE, of Paris, in the Empire of France, for an invention for—"Certain improvements in the apparatus for consuming smoke."—*A communication.* *Letters Patent sealed.*

SAMUEL. 12th May 1856.

1118. BARNETT SAMUEL, of Sheffield, in the County of York, for an invention for—"Improvements in the manufacture of combs." *Letters Patent sealed.*

NEWTON. 12th May 1856.

1119. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Certain improvements in machinery for pumping and forcing water and other fluids."—*A communication from George Denison, of the United States of America.* *Letters Patent sealed.*

NEWTON. 12th May 1856.

1120. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improved machinery for splitting or cutting blocks of wood for match splints, kindling wood, treenails, and other purposes."—*A communication.* *Letters Patent sealed.*

CLOUGH. 13th May 1856.

1121. CHARLES BUTLER CLOUGH, of Llwyn Offa, in the County of Flint, Esquire, for an invention for—"Improvements in elongating and contracting metal bars or rods for the obtainment of motive-power." *Provisional protection only.*

SIMPSON. 13th May 1856.

1122. MICHAEL HODGE SIMPSON, of the State of Massachusetts, of the United States of America, for an invention for—"Certain new and useful improvements in machinery for combing wool or various other fibrous substances." *Letters Patent sealed.*

PARKES. 13th May 1856.

1123. ALEXANDER PARKES, of Birmingham, for an invention for—"Improvements in the use of collodion in photography." *Provisional protection only.*

TUCKER. 13th May 1856.

1124. HIRAM TUCKER, of the State of Massachusetts, of the United States of America, for an invention for—"An improved spring sacking or foundation for a bed, mattress, or other like article." *Letters Patent sealed.*

PARKES. 13th May 1856.

1125. ALEXANDER PARKES, of Birmingham, for an invention for—"An improvement in preparing materials for, and in waterproofing and coating woven and other fabrics, paper, leather, and other substances." *Provisional protection only.*

BOOSEY. 13th May 1856.

1126. CHARLES BOOSEY, of 24, Holles Street, Cavendish Square, for an invention for—"Improvements in music stands for the use of military and other bands."—*A communication.* *Provisional protection only.*

RAYWOOD. 13th May 1856.

1127. ROBERT RAYWOOD, of Penistone, in the County of York, Stone Dealer, for an invention for—"Improvements in railways." *Provisional protection only.*

NEWTON. 13th May 1856.

1128. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improved apparatus for generating illuminating gases from coal or other substances."—*A communication.* *Letters Patent sealed.*

NEWTON. 13th May 1856.

1129. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improved machinery for removing snow from railroad tracks."—*A communication.* *Letters Patent sealed.*

NEWTON. 13th May 1856.

1130. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"The novel application of certain substances to be employed in printing upon woven or other fabrics and paper."—*A communication.* *Provisional protection only.*

BRAGG. 14th May 1856.

1131. HENRY BRAGG the younger, of Belfast, in the County of Antrim, in Ireland, Commission Agent, for an invention for—"Improvements in machinery or apparatus for finishing linen and other fabrics." *Letters Patent sealed.*

GALLOWAY. GALLOWAY. 14th May 1856.

1132. WILLIAM GALLOWAY, and JOHN GALLOWAY, both of Manchester, in the County of Lancaster, Engineers, for an invention for—"Improvements in machinery for rasping, cutting, and chipping dye woods." *Letters Patent sealed.*

GROVES. 14th May 1856.

1133. HIRAM GROVES, of the City of New York, in the United States of America, Surveyor and Lithographer, for an invention for—"Improvements in tune barrels or cylinders or other apparatus for playing upon organs or other musical instruments." *Letters Patent sealed.*

RIDDELL. 14th May 1856.

1134. JOSEPH HADLEY RIDDELL, of 5, Sherborne Lane, in the City of London, Civil Engineer, for an invention for—"Improvements in stoves or fireplaces." *Provisional protection only.*

POLLOCK. 14th May 1856.

1135. WILLIAM POLLOCK, of Paisley, in the County of Renfrew, North Britain, Merchant, for an invention for—"Improvements in the treatment or manufacture of ornamental fabrics of the lappet class." *Provisional protection only.*

DRIEU. 14th May 1856.

1136. JEROME ANDRÉ DRIEU, of Patricroft, near Manchester, in the County of Lancaster, for an invention for—"Improvements in weaving horse cloths, blankets, rugs, or similar thick materials." *Letters Patent sealed.*

TOLHAUSEN. 14th May 1856.

1137. ALEXANDRE TOLHAUSEN, of No. 7, Duke Street, Adelphi, London, County of Middlesex, Sworn Interpreter at the Imperial Court of Paris, for an invention for—"An improved distance indicator for public carriages."—*A communication from Carl August Ludwig Mannory, of Berlin.* *Provisional protection only.*

SCOTT.
14th May 1856.

1138. URIAH SCOTT, of Camden Town, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in public carriages and various parts of the same, which parts may be used separately and applied to vehicles of any description." *Letters Patent sealed.*

HARDING.
14th May 1856.

1139. GUSTAVUS PALMER HARDING, of Kingsland, in the County of Middlesex, Warehouseman, for an invention for—"An improvement in the manufacture of cloth bonnets." *Letters Patent sealed.*

MEILLET.
14th May 1856.

1140. ALPHONSE MEILLET, of 39, Rue de l'Echiquier, Paris, in the Empire of France, and of 4, South Street, Finsbury, London, Gentleman, for an invention for—"An improved artificial stone for grinding, sharpening, and polishing." *Letters Patent sealed.*

OLIVIER.
14th May 1856.

1141. CHARLES HENRY OLIVIER, of 37, Finsbury Square, in the County of Middlesex, Commission Merchant, for an invention for—"Improvements in the mode of preparing and applying silk waste."—*A communication.* *Letters Patent sealed; no specification filed.*

GIBSON.
14th May 1856.

1142. CHARLES GIBSON, of Draycott, in the County of Derby, Gentleman, for an invention for—"Improved machinery for the manufacture of bricks, tiles, pipes, and other articles made of clay or plastic materials." *Letters Patent sealed.*

CROFTS.
14th May 1856.

1143. WILLIAM CROFTS, of Derby Terrace, Nottingham Park, Manufacturer, for an invention for—"Improvements in the manufacture of lace and other weavings." *Letters Patent sealed.*

HARFIELD.
14th May 1856.

1144. WILLIAM HORATIO HARFIELD, of 113, Fenchurch Street, in the City of London, for an invention for—"Improvements in machinery for cutting and smoothing the surfaces of metallic nuts."—*A communication.* *Letters Patent sealed.*

EVANS.
14th May 1856.

1145. WILLIAM EVANS, of Sherston Malmesbury, in the County of Wilts, for an invention for—"An improved description of plough." *Letters Patent sealed.*

COX.
15th May 1856.

1146. JOHN COX, of Ivy Bridge Cottage, near Caerleon, in the County of Monmouthshire, Civil Engineer, for an invention for—"Improvements in coke and coke ovens." *Letters Patent sealed.*

WALKER.
M'KENZIE.
15th May 1856.

1147. ROBERT WALKER, of Glasgow, Merchant, and ALEXANDER M'KENZIE, also of Glasgow, Mechanist, for an invention for—"Improvements in electric telegraphs." *Provisional protection only.*

NORRIS.
KING.
15th May 1856.

1148. WILLIAM NORRIS, of Liverpool, in the County of Lancaster, Anchor Manufacturer, and ROBERT KING, of the same place, Foreman to the said William Norris, for an invention for—"Improvements in anchors." *Letters Patent sealed.*

SIMPSON.
THOMSON.
15th May 1856.

1149. JAMES YOUNG SIMPSON, of Edinburgh, in the County of Midlothian, Doctor of Medicine, and WYVILLE THOMSON, of Belfast, in the County of Antrim, Professor of Geology, for an invention for—"The manufacture or production of lubricating oil from a new material." *Letters Patent sealed.*

LECK.
MILLER.
15th May 1856.

1150. JAMES LECK, of Glasgow, in the County of Lanark, North Britain, Bleacher, and ALEXANDER MILLER, of the same place, Singer, for an invention for—"Improvements in singeing textile fabrics." *Letters Patent sealed.*

FOULDS.
BRACEWELL.
15th May 1856.

1151. ROBERT FOULDS, Overlooker, and WILLIAM BRACEWELL, Manufacturer, both of Barnoldswick, near Colne, in the County of Lancaster, for an invention for—"Certain improvements in power-looms constructed on what is called the loose-reed principle." *Letters Patent sealed.*

GREAVES.
15th May 1856.

1152. HUGH GREAVES, of New Palace Yard, in the City of Westminster, Civil Engineer, for an invention for—"Improvements in the permanent way of railways." *Letters Patent sealed.*

WILLIAMS.
15th May 1856.

1153. CHARLES RICHARD WILLIAMS, of Shiffnal, in the County of Salop, Farmer, for an invention for—"A new or improved implement or apparatus for the cultivation of land." *Letters Patent sealed.*

BROOMAN.
15th May 1856.

1154. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent Agent, for an invention for—"An improvement in stuffing seats, cushions, furniture, and other similar articles."—*A communication from Pierre Touben, of Paris, Merchant.* *Provisional protection only.*

MOORE.
15th May 1856.

1155. SAMUEL WESTON MOORE, of Nottingham, Lace Manufacturer, for an invention for—"Improvements in dividing and finishing lace goods."
Letters Patent sealed.

MARYCHURCH.
GRIFFITHS.
15th May 1856.

1156. WILLIAM MARYCHURCH, Agricultural Implement Maker, and JOHN GRIFFITHS, Engineer, both of Haverfordwest, in the County of Pembroke, for an invention for—"Improvements in horse rakes;—part of which is applicable to two-wheeled carriages." *Letters Patent sealed.*

TOWNSEND.
15th May 1856.

1157. MATTHEW TOWNSEND, of Leicester, Fancy Hosiery Manufacturer, for an invention for—"Improvements in the manufacture of knitted fabrics."
Letters Patent sealed.

SMITH.
15th May 1856.

1158. WILLIAM SMITH, of No. 10, Salisbury Street, Adelphi, Civil Engineer, for an invention for—"A new application of the syphon as an irrigator and a motive-power machine."—*A communication from Monsieur Alexandre Herault, of Angers, in the Empire of France.* *Provisional protection only.*

THISTLETHWAITE.
16th May 1856.

1159. WILLIAM THISTLETHWAITE, of 2, Verulam Buildings, Gray's Inn, London, Gentleman, for an invention for—"Certain improvements in photography."—*A communication from Louis Angamarre, of Paris, in the Empire of France.*
Letters Patent sealed.

MARTIN.
16th May 1856.

1160. JOSEPH MARTIN, of Liverpool, in the County of Lancaster, Rice and Corn Miller, for an invention for—"Improvements in machinery for draining or partially drying certain descriptions of wheat and other grain." *Letters Patent sealed.*

HARKER.
16th May 1856.

1161. WILLIAM HARKER, of Victoria Mill, Bowley, Bradford, in the County of York, for an invention for—"Improvements in giving motion to rotating shuttle boxes of power-looms." *Provisional protection only.*

HENDERSON.
16th May 1856.

1162. WILLIAM HENDERSON, of Dunkeld, Perthshire, Gardener to His Grace the Duke of Athol, for an invention for—"Improvements in the manufacture of brooms."
Letters Patent sealed.

EABORN.
ROBINSON.
16th May 1856.

1163. EDMUND EABORN, and MATTHEW ROBINSON, Engineers, trading as Co-partners, in Clement Street, Birmingham, in the County of Warwick, for an invention for—"Certain improvements in machinery for grinding or reducing sugar."
Provisional protection only.

BARCLAY.
WALLACE.
16th May 1856.

1164. ANDREW BARCLAY, of Kilmarnock, in the County of Ayr, North Britain, Engineer, and JOHN WALLACE, of the same place, Gas Collector, for an invention for—"Improvements in apparatus for the manufacture and measurement of illuminating gas." *Provisional protection only.*

MELLOR.
16th May 1856.

1165. JAMES MELLOR, of Gorton, near Manchester, in the County of Lancaster, Pattern Designer, for an invention for—"Certain improvements in grates or grids applicable to sewers, drains, and other similar purposes." *Provisional protection only.*

COLEMAN.
17th May 1856.

1166. RICHARD COLEMAN, of Chelmsford, in the County of Essex, for an invention for—"Improvements in implements for ploughing, hoeing, and scarifying land."
Letters Patent sealed.

CURWOOD.
17th May 1856.

1167. DAVID CURWOOD, of George Street, Grosvenor Square, in the County of Middlesex, for an invention for—"An improved apparatus for facilitating the cleaning of knives and forks." *Letters Patent sealed.*

KREEFT.
17th May 1856.

1168. SIEGERICH CHRISTOPHER KREEFT, of Fenchurch Street, in the City of London, Merchant, for an invention for—"Improvements in the manufacture of iron and steel."—*A communication.* *Provisional protection only.*

NEWTON.
17th May 1856.

1169. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improvements in machinery for forging or pointing wrought nails, spikes, and other four sided articles."—*A communication.* *Letters Patent sealed.*

SCHEURMANN.
17th May 1856.

1170. GUSTAV SCHEURMANN, of 86, Newgate Street, in the City of London, Music Publisher, for an invention for—"Improvements in printing music."
Provisional protection only.

CORNIDES.
17th May 1856.

1171. LOUIS CORNIDES, of No. 4, Trafalgar Square (Office for Patents), Charing Cross, in the County of Middlesex, for an invention for—"Improvements in ornamental window blinds and such like transparent decorations."—*Letters Patent sealed.*

MEYER.
17th May 1856.

1172. JOHAN JACOB MEYER, of No. 28, Tatham Street, out of Molesworth Street, within the Borough of Rochdale, in the County of Lancaster, for an invention for—"Improvements in machinery for mortising, tenoning, rounding, sweep and straight moulding, boring, grooving, and mitreing." *Letters Patent sealed.*

HYNAM.
17th May 1856.

1173. JOHN HYNAM, of 6 and 7, Princes Square, Wilson Street, Finsbury, for an invention for—"An improvement in the manufacture of instantaneous lights when of paper or cotton." *Provisional protection only.*

TITTERTON.
17th May 1856.

1174. CHARLES TITTERTON, of Roehampton, in the County of Surrey, for an invention for—"Improvements in the manufacture of zinc and zinc white." *Provisional protection only.*

KNIGHT.
17th May 1856.

1175. RICHARD KNIGHT, of Foster Lane, in the City of London, for an invention for—"Improvements in apparatus for aërating liquids." *Letters Patent sealed.*

M'CLOY.
HARE.
17th May 1856.

1176. RICHARD M'CLOY, and JOHN HARE, both of Glasgow, in the County of Lanark, North Britain, Managers, for an invention for—"Improvements in spinning and twisting fibrous materials, and in the machinery or apparatus employed therein." *Letters Patent sealed.*

TEVIS.
17th May 1856.

1177. CHARLES CARROLL TEVIS, Lieutenant-Colonel, residing at Paris, in the French Empire, for an invention for—"An improved revolver." *Provisional protection only.*

CARTER.
17th May 1856.

1178. GEORGE CARTER, of Mottingham, in the County of Kent, Gentleman, for an invention for—"Improvements in the mode of propelling and steering vessels, and in the apparatus and machinery applicable thereto." *Letters Patent sealed.*

WILKES.
WILKES.
WILKES.
19th May 1856.

1179. JOHN WILKES, of Birmingham, in the County of Warwick, Manufacturer, and THOMAS WILKES, of Birmingham aforesaid, Manufacturer, and GILBERT WILKES, of Birmingham aforesaid, Manufacturer, for an invention for—"A new or improved manufacture of rollers or cylinders for printing fabrics."—*Letters Patent sealed.*

BROWN.
19th May 1856.

1180. JEREMIAH BROWN, of Kingswinford, in the County of Stafford, Machinist, for an invention for—"New or improved machinery to be used in the manufacture of iron." *Letters Patent sealed.*

BOWHAY.
19th May 1856.

1181. JOHN LEAKEY BOWHAY, of Modbury, in the County of Devon, Agricultural Implement Manufacturer, for an invention for—"Improvements in drills for sowing seeds and distributing manure or water." *Provisional protection only.*

CLARK.
19th May 1856.

1182. GEORGE CLARK, of Great Cambridge Street, Hackney Road, in the County of Middlesex, Gas Engineer, for an invention for—"Improvements in the manufacture of illuminating gas." *Letters Patent sealed.*

PICCIOTTO.
19th May 1856.

1183. MOSES HAYM PICCIOTTO, of 8, Crosby Square, in the City of London, for an invention for—"Improvements in preparing flax, hemp, and other similar fibrous materials." *Provisional protection only.*

SMYTHIES.
19th May 1856.

1184. JOHN KINNERSLEY SMYTHIES, of 27, Kensington Park Gardens, for an invention for—"Improvements in apparatus or instruments for ascertaining the points of the compass, and the latitude and longitude of a place."—*Provisional protection only.*

WILKES.
WILKES.
WILKES.
19th May 1856.

1185. JOHN WILKES, of Birmingham, in the County of Warwick, Manufacturer, and THOMAS WILKES, of Birmingham aforesaid, Manufacturer, and GILBERT WILKES, of Birmingham aforesaid, Manufacturer, for an invention for—"A new or improved manufacture of rollers or cylinders for printing fabrics." *Letters Patent sealed.*

FOWLER.
M'COLLIN.
20th May 1856.

1186. WILLIAM FOWLER, and WILLIAM M'COLLIN, of the Borough of Kingston-upon-Hull, for an invention for—"Improvements in portable steam-engines applicable to agricultural and other similar purposes." *Provisional protection only.*

MAUGHAM.
20th May 1856.

1187. WILLIAM MAUGHAM, of Ifield Terrace, in the County of Surrey, for an invention for—"An improvement in rendering wood fire-proof."—*Letters Patent sealed.*

WILKINSON. 20th May 1856.

1188. GEORGE WILKINSON, of 17, Evan Street, Poplar, in the County of Middlesex, for an invention for—"Improvements in steering apparatus, and in giving motion to machinery for raising and moving weights." *Letters Patent sealed.*

MAUGHAM. 20th May 1856.

1189. WILLIAM MAUGHAM, of Ifield Terrace, in the County of Surrey, for an invention for—"An improvement in rendering cotton and other fabrics and paper uninflammable." *Provisional protection only.*

MAXWELL. 20th May 1856.

1190. RICHARD MAXWELL, of No. 4, Carlton Terrace, North Brixton, in the County of Surrey, for an invention for—"Improvements in the construction of taps for drawing off liquids." *Letters Patent sealed.*

GOLLOP. 20th May 1856.

1191. JAMES ANNING GOLLOP, of 74, Lower Sloane Street, Chelsea, in the County of Middlesex, for an invention for—"An improved method of excluding dust, water, air, and other extraneous matters, from doors, windows, glass show-cases, and such like constructions." *Letters Patent sealed.*

TOMS. 20th May 1856.

1192. SAMUEL ROGERS TOMS, of No. 3, Church Villas, Croydon, in the County of Surrey, for an invention for—"Improvements in gloves."—*Provisional protection only.*

M'BRIDE. 20th May 1856.

1193. WILLIAM CARDWELL M'BRIDE, of Armagh, County Armagh, Manufacturer, for an invention for—"Improvements in machinery for scutching flax and other vegetable fibrous substances." *Letters Patent sealed.*

NEWTON. 20th May 1856.

1194. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"An improved mode of preparing the double chlorides of aluminium and sodium, and aluminium and potassium."—*A communication from Rousseau, Brothers, and Paul Morin, of Paris.* *Letters Patent sealed.*

NEWTON. 20th May 1856.

1195. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in the process of manufacturing oil from seeds, and in the machinery and apparatus to be used therein."—*A communication.* *Letters Patent sealed.*

NEWTON. 20th May 1856.

1196. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"An improved rotary pump."—*A communication.* *Letters Patent sealed.*

DE CASTRO. 21st May 1856.

1197. JOSEPH HENRY REYNELL DE CASTRO, of the City of Manchester, Merchant, for an invention for—"An improved method of propelling railway or other carriages up inclines."—*A communication.* *Letters Patent sealed; no specification filed.*

SHAW. 21st May 1856.

1198. DAVID SHAW, of Gee Cross, in the County of Chester, Manufacturer, for an invention for—"Improvements in looms and apparatus employed therewith, for weaving." *Letters Patent sealed.*

PEMBERTON. 21st May 1856.

1199. ROBERT PEMBERTON, of Hildenborough, Tonbridge, in the County of Kent, for an invention for—"Improvements in barrel organs." *Letters Patent sealed.*

PERRON. 21st May 1856.

1200. JOHN PERRON, of No. 53, Buddesland Street, Hoxton New Town, for an invention for—"Improvements in ornamenting surfaces of wood, ivory, bone, and such like substances." *Provisional protection only.*

DUFRESNE. 21st May 1856.

1201. ALEXANDRE HENRI DUFRESNE, of 39, Rue de l'Echiquier, Paris, in the Empire of France, and of 4, South Street, Finsbury, London, for an invention for—"An improved process of gilding and ornamenting steel and other metals." *Letters Patent sealed.*

COPE. 21st May 1856.

1202. JOHN COPE, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"An improvement or improvements in the manufacture of buttons made of pearl or other shell, ivory, bone, or wood." *Letters Patent sealed.*

BOWER. BARWELL. 21st May 1856.

1203. MANOAH BOWER, of Birmingham, in the County of Warwick, Manufacturer, and JOHN BARWELL, of Birmingham aforesaid, Gentleman, for an invention for—"A new or improved method of joining the parts of metallic and other bedsteads and other articles of furniture." *Provisional protection only.*

MEDLOCK. 21st May 1856.

1204. HENRY MEDLOCK, of No. 20, Great Marlborough Street, in the County of Middlesex, for an invention for—"Improvements in the manufacture of glass, enamels, and other vitrified substances." *Provisional protection only.*

HOLDIN. DORNING. 21st May 1856.

1205. JAMES HOLDIN, of the City of Manchester, Paper Manufacturer, and WILLIAM JOHN DORNING, of Manchester, in the County of Lancaster, Engineer, for an invention for—"Improvements in bouking, bleaching, washing, and cleansing textile fabrics and materials."—*Partly a communication from Edward Taylor Bellhouse, at present residing at Buenos Ayres, South America.* *Provisional protection only.*

ALLAN. HUNT. 21st May 1856.

1206. ALEXANDER ALLAN, of the Town and County of Perth, North Britain, Engineer, and THOMAS HUNT, of Crewe, in the County of Chester, Engineer, for an invention for—"Improvements in the construction of locomotive and other steam-engines and carriages, and in the rolling stock of railways." *Letters Patent sealed.*

HERON. 21st May 1856.

1207. GEORGE HERON, of South Street, Newcastle-on-Tyne, in the County of the same, Mechanical Engineer, for an invention for—"Improvements in machinery or apparatus for raising, lowering, moving, or transporting heavy bodies." *Letters Patent sealed.*

SCHWABE. 21st May 1856.

1208. RUDOLPH HERMANN SCHWABE, of Glasgow, in the County of Lanark, North Britain, Commission Agent, for an invention for—"Improvements in the manufacture or production of ornamental fabrics." *Provisional protection only.*

NEILSON. 21st May 1856.

1209. MACLEROY NEILSON, of Thorn Mill, in the County of Renfrew, North Britain, Cotton Spinner, for an invention for—"Improvements in the treatment, preparation, or finishing of yarns or threads." *Letters Patent sealed.*

GREENLEES. 21st May 1856.

1210. EDWARD GREENLEES, of Glasgow, in the County of Lanark, North Britain, Marble Cutter, for an invention for—"Improvements in the treatment and preparation or manufacture of textile and pulpy materials." *Provisional protection only.*

DE JONGH. 21st May 1856.

1211. CHARLES DE JONGH, of Lautenbach, near Guebwiller, in the Empire of France, Manufacturer, for an invention for—"An improved method of separating and assorting combed fibres of different lengths." *Letters Patent sealed.*

LAWRENCE. 21st May 1856.

1212. THOMAS LAWRENCE, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"Improvements in machinery to be used for grinding and polishing gun barrels, swords, matchets, bayonets, scythes, fire-irons, and other articles similar in transverse section to any of those above named." *Letters Patent sealed.*

BENTALL. 21st May 1856.

1213. EDWARD HAMMOND BENTALL, of Heybridge, in the County of Essex, Iron Founder, for an invention for—"Improved machinery for crushing or splitting grain or seeds."—*A communication.* *Letters Patent sealed.*

NEWTON. 21st May 1856.

1214. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in machinery for spinning or twisting fibrous substances."—*A communication from Emile Weber Bleck.* *Provisional protection only.*

ASTON. HOPKINSON. 21st May 1856.

1215. WILLIAM HENRY ASTON, and SAMUEL HOPKINSON, of Zetland Mill, Huddersfield, for an invention for—"Improvements in steam-boiler furnaces, and apparatus employed for supplying water to steam-boilers." *Provisional protection only.*

CURTIS. 21st May 1856.

1216. WILLIAM JOSEPH CURTIS, of 1, Sebbon Street, Islington, Civil Engineer, for an invention for—"Improvements in the manufacture of iron railway wheels." *Provisional protection only.*

GALLOWAY. GALLOWAY. 22nd May 1856.

1217. WILLIAM GALLOWAY, and JOHN GALLOWAY, both of Manchester, in the County of Lancaster, Engineers, for an invention for—"Improvements in steam-boilers." *Letters Patent sealed.*

HUBERT. 22nd May 1856.

1218. ALEXANDRE HUBERT, of Bordeaux, Dep^{t} de la Gironde, in the Empire of France, and 4, South Street, Finsbury, London, Captain in the Navy, and Knight of the Legion of Honour, for an invention for—"An improved apparatus for ventilating ships or vessels." *Letters Patent sealed.*

PEARCE. 22nd May 1856.

1219. JOHN CHARLES PEARCE, of the Bowling Iron Works, near Bradford, in the County of York, Engineer, for an invention for—"Improvements in apparatus for generating and economizing steam." *Letters Patent sealed.*

HODGES. 22nd May 1856.

1220. WILLIAM RICHELIEU HODGES, of the City of Manchester, in the County of Lancaster, Merchant and Manufacturer, for an invention for—"Improvements in machinery or apparatus for manufacturing loop pile fabrics."—*A communication.* *Letters Patent sealed.*

DEMPSEY. 22nd May 1856.

1221. WILLIAM CHURCHILL DEMPSEY, of No. 4, Liverpool Street, King's Cross, in the County of Middlesex, for an invention for—"A compound for removing all obstructions of the air passages." *Letters Patent sealed.*

TOLHAUSEN. 22nd May 1856.

1222. ALEXANDRE TOLHAUSEN, of No. 7, Duke Street, Adelphi, London, County of Middlesex, Sworn Interpreter at the Imperial Court of Paris, for an invention for—"Improvements in clock-work, part of these improvements being applicable to other regulating purposes."—*A communication from Yves Marie Thomas, France.* *Letters Patent sealed.*

CUTLER. 22nd May 1856.

1223. JOB CUTLER, of Sparkbrook, Birmingham, in the County of Warwick, Gentleman, for an invention for—"Improvements in the manufacture of metallic pipes or tubes to be used for various purposes." *Letters Patent sealed.*

BARRESWIL. 22nd May 1856.

1224. CHARLES BARRESWIL, of Paris, in the Empire of France, Chemist, for an invention for—"Improvements in gas meters." *Letters Patent sealed.*

BARRUEL. 22nd May 1856.

1225. GERMAIN BARRUEL, Chemist, of No. 24, Rue Hautefeuille, in the City of Paris, for an invention for—"Improvements in treating cotton seed." *Letters Patent sealed.*

BELL. 22nd May 1856.

1226. ROBERT BELL, of 93, Glassford Street, Glasgow, for an invention for—"An improvement in the manufacture or production of ornamental fabrics." *Letters Patent sealed.*

DEWICK. 22nd May 1856.

1227. CHARLES DEWICK, sen^{r}, of Stanley Street, Leicester, County of Leicester, Manufacturer, for an invention for—"Improvements in machines generally called 'Rib frame or Rib machine' for producing fancy hosiery." *Letters Patent sealed.*

HOWARD. BAKER. 22nd May 1856.

1228. JAMES HOWARD, of Bedford, Ironfounder, and GEORGE WILLIAMS BAKER, of Woburn, in the County of Bedford, Farm Bailiff to His Grace the Duke of Bedford, for an invention for—"Improvements in machinery or apparatus applicable to the tilling of land." *Letters Patent sealed.*

RUSSUM. 23rd May 1856.

1229. THOMAS DAWSON RUSSUM, of Tipton, in the County of Stafford, Engineer, for an invention for—"A new or improved break for steam-engines and other motive-power engines." *Letters Patent sealed.*

BERRISFORD. WILKINSON. 23rd May 1856.

1230. SAMUEL BERRISFORD, of Portwood, near Stockport, in the County of Chester, and ENOCH WILKINSON, of Oldham, in the County of Lancaster, Overlooker, for an invention for—"Certain improvements in looms for weaving." *Letters Patent sealed.*

GEDGE. 23rd May 1856.

1231. JOHN GEDGE, of No. 4, Wellington Street South, Strand, in the County of Middlesex, Patent Agent, for an invention for—"An improved gridiron."—*A communication from François Victor Grousse, near Paris, France.* *Provisional protection only.*

GEDGE. 23rd May 1856.

1232. JOHN GEDGE, of No. 4, Wellington Street South, Strand, in the County of Middlesex, Patent Agent, for an invention for—"Improvements in looms."—*A communication from Desiré Pourrez, of Lille, France.* *Provisional protection only.*

GEDGE. 23rd May 1856.

1233. JOHN GEDGE, of No. 4, Wellington Street South, Strand, in the County of Middlesex, Patent Agent, for an invention for—"Improvements in machinery or apparatus for winding threads."—*A communication from C. M. F. Perrier, of Sauviat, France.* *Provisional protection only.*

GEDGE. 23rd May 1856.

1234. JOHN GEDGE, of No. 4, Wellington Street South, Strand, in the County of Middlesex, Patent Agent, for an invention for—"Improvements in obtaining a material used in dyeing."—*A communication from Mathieu Dauriac, of Toulouse, France.* *Provisional protection only.*

GEDGE. 23rd May 1856.

1235. JOHN GEDGE, of No. 4, Wellington Street South, Strand, in the County of Middlesex, Patent Agent, for an invention for—"Improvements in machinery or apparatus for the manufacture of billiard cues or similar articles."—*A communication from Antoine Escafet, of Castres, France.* *Provisional protection only.*

GEDGE. 23rd May 1856.

1236. JOHN GEDGE, of No. 4, Wellington Street South, Strand, in the County of Middlesex, Patent Agent, for an invention for—"Improvements in the means of adjusting the parts of ladies' dresses called 'Crinolines' and 'Sous-jupes.'"—*A communication from Jules Leonard Cerbeland, of Angoulême, France.* *Provisional protection only.*

GEDGE.
23rd May 1856.

1237. JOHN GEDGE, of No. 4, Wellington Street South, Strand, in the County of Middlesex, Patent Agent, for an invention for—"Improvements in the application of distillation to gas from the furnaces of steam-engines."—*A communication from Nicolas Delannoy, of Tournay, Belgium.* *Letters Patent sealed.*

GALLOWAY.
23rd May 1856.

1238. GEORGE BELL GALLOWAY, of 42, Basinghall Street, in the City of London, late of Chili, in South America, Engineer and Ship-owner, for an invention for—"Improvements in the furnaces of marine boilers, and in the construction of steam-vessels." *Provisional protection only.*

HERBERT.
WHITAKER.
23rd May 1856.

1239. THOMAS HERBERT, of the firm of Thomas Herbert & Company, Nottingham, Lace Manufacturers, and EDWARD WHITAKER, of Nottingham aforesaid, Mechanic, for an invention for—"An improvement in the manufacture of warp lace fabrics." *Letters Patent sealed.*

DIXON.
23rd May 1856.

1240. JOHN DIXON, of High Bridge, Newcastle-upon-Tyne, Engineer, for an invention for—"Improvements in apparatus for measuring water and other liquids." *Letters Patent sealed; specification filed 22nd December, by order.*

DIMPFEL.
23rd May 1856.

1241. FREDERICK PETER DIMPFEL, of the City and County of Philadelphia, and State of Pennsylvania, one of the United States of America, Engineer, for an invention for—"Improvements in the construction of screw nuts for axle boxes and other purposes."—*A communication from Kingston Goddard, of the City of Philadelphia, in the United States of America.* *Letters Patent sealed.*

DE COCKKENIFECK.
24th May 1856.

1242. JOHN DE COCKKENIFECK, of Cork, in the Kiñgdom of Ireland, Belgian, Inspector of the Royal Flax Improvement Society of Ireland, for an invention for—"An improved process and apparatus for preparing, refining, and filtering oils or fatty matters." *Letters Patent sealed.*

BARRON.
24th May 1856.

1243. PIERSE EUSTACE LAURENCE BARRON, of Coleshill Street, Eaton Square, in the County of Middlesex, Gentleman, for an invention for—"An improved process for coating metals for sheathing ships and for other purposes, and in the means of attaching sheathing plates to ships or vessels."—*A communication.* *Letters Patent sealed.*

ILLINGWORTH.
24th May 1856.

1244. WILLIAM ILLINGWORTH, of Manchester, in the County of Lancaster, Gentleman, for an invention for—"Certain improvements in printing or colouring and glazing china, earthenware, or other ceramic manufactures, and in the machinery or apparatus connected therewith, and also improvements in the subsequent treatment of such manufactures." *Letters Patent sealed.*

JUNDZILL.
24th May 1856.

1245. ADAM DUNIN JUNDZILL, Civil Engineer, living in London, No. 18, Portugal Street, Lincoln's Inn Fields, County of Middlesex, for an invention for—"An instrument for animating stereoscopic figures." *Provisional protection only.*

WHYTLAW.
MITCHELL.
24th May 1856.

1246. ROBERT ADAM WHYTLAW, and ALEXANDER MITCHELL the younger, both of Glasgow, in the County of Lanark, North Britain, Manufacturers, for an invention for—"Improvements in weaving." *Letters Patent sealed.*

LEA.
24th May 1856.

1247. JAMES LEA, of Birmingham, in the County of Warwick, Bell-hanger, for an invention for—"Improvements in sun blinds." *Provisional protection only.*

DIMPFEL.
24th May 1856.

1248. FREDERICK PETER DIMPFEL, of the City and County of Philadelphia, in the State of Pennsylvania, one of the United States of America, Engineer, for an invention for—"Improvements in the construction of steam-boilers and furnaces." *Letters Patent sealed.*

LIPTRAP.
WRIGHT.
24th May 1856.

1249. SAMUEL DAVEY LIPTRAP, of the Albany Road, Camberwell, and JAMES WRIGHT, of 10, Alfred Place, Newington Causeway, Civil Engineer, both of the County of Surrey, for an invention for—"Improvements in apparatus for regulating the mode of supplying and drawing off water and other liquids."—*Provisional protection only.*

DE BUFFON.
26th May 1856.

1250. BENJAMIN NADAULT DE BUFFON, of 13, Rue du Cherche Midi, Paris, in the Empire of France, and 4, South Street, Finsbury, London, Ingénieur en Chef du Gouvernement, for an invention for—"A new apparatus for clarifying and purifying water and other fluids." *Letters Patent sealed.*

GAGET.
26th May 1856.

1251. ANDRE ADOLPHE GAGET, of No. 39, Rue de l'Echiquier, Paris, and 4, South Street, Finsbury, London, Gentleman, for an invention for—"Improvements in bookbinding." *Letters Patent sealed.*

DE NORMANDY. 26th May 1856.

1252. ALPHONSE RENE LE MIRE DE NORMANDY, of 67, Judd Street, Brunswick Square, in the County of Middlesex, Analytical and Consulting Chemist, for an invention for—"Improvements in obtaining fresh water from salt water." *Letters Patent sealed.*

RYE. 26th May 1856.

1253. WHARTON RYE, of Manchester, in the County of Lancaster, Ironfounder, for an invention for—"Certain improvements in fixing or fastening rails of railways in their chairs." *Provisional protection only.*

HULSE. 26th May 1856.

1254. WILLIAM HULSE, of Birmingham, in the County of Warwick, Smith, for an invention for—"An improvement or improvements in metallic and other bedsteads;—which improvement or improvements may be applied to other articles of furniture and to framework generally." *Letters Patent sealed.*

COWPER. 26th May 1856.

1255. CHARLES COWPER, of No. 20, Southampton Buildings, Chancery Lane, in the County of Middlesex, for an invention for—"Improvements in the treatment of coal, and in the purification, desiccation, and agglomeration of coal, and in machinery and apparatus for such purposes."—*A communication.* *Letters Patent sealed.*

HEYWOOD. 26th May 1856.

1253. BENNETT JOHNS HEYWOOD, of Leicester Square, in the County of Middlesex, Gentleman, for an invention for—"Improvements in holders for leads, slate, and other marking materials." *Letters Patent sealed.*

JEUNE. 26th May 1856.

1257. FREDERICK CHARLES JEUNE, of Gresham Street, in the City of London, India-Rubber Manufacturer, for an invention for—"An improved manufacture of floor-cloth." *Letters Patent sealed.*

NEWTON. 26th May 1856.

1258. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"An improvement applicable to quadrants and other instruments for taking the altitude of the sun or other objects."—*A communication.* *Letters Patent sealed.*

FOSTER. 26th May 1856.

1259. THOMAS FOSTER, of Brownlow Street, in the County of Middlesex, Turner, for an invention for—"Improved apparatus for holding postage, receipt, and other stamps." *Provisional protection only.*

NEWINGTON. 26th May 1856.

1260. SAMUEL NEWINGTON, of Ticehurst, in the County of Sussex, Doctor of Medicine, for an invention for—"A preparation for destroying the fly or aphis and other insects on hop and other plants." *Letters Patent sealed.*

ROBERTS. 26th May 1856.

1261. JOHN ROBERTS, of Falmouth, Builder, for an invention for—"Improvements in machinery for moulding bricks and tiles." *Letters Patent sealed.*

CHARLTON. TURNBULL. 26th May 1856.

1262. THOMAS CHARLTON, of Brentwood, in the County of Essex, Engineer, and WILLIAM TURNBULL, of Rotherhithe, in the County of Surrey, Engineer, for an invention for—"Improvements in steam-engines." *Letters Patent sealed.*

BAIRD. 26th May 1856.

1263. JAMES BAIRD, of the City of Edinburgh, Wool Merchant, for an invention for—"A method of freeing the wool upon skins from burrs and other extraneous substances." *Letters Patent sealed.*

YATES. 26th May 1856.

1264. HENRY GEORGE YATES, of East Smithfield, in the County of Middlesex, Gentleman, for an invention for—"An improvement in treating wash waters in order to precipitate the greasy and soapy matters contained therein."—*A communication.* *Provisional protection only.*

TALBOTT. 27th May 1856.

1265. EBENEZER TALBOTT, of Spring Vale, in the County of Staffordshire, Manager of Iron Works, for an invention for—"Improvements in the construction of rails for railways." *Provisional protection only.*

HILLS. 27th May 1856.

1266. FRANK CLARKE HILLS, of Deptford, in the County of Kent, Manufacturing Chemist, for an invention for—"Improvements in the purification of gas." *Letters Patent sealed.*

NEWTON. 27th May 1856.

1267. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in printing machinery."—*A communication.* *Letters Patent sealed.*

NEWTON. 27th May 1856.

1268. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improvements in reaping-machines."—*A communication.* *Letters Patent sealed.*

DIMPFEL. 27th May 1856.

1269. FREDERICK PETER DIMPFEL, of the City and County of Philadelphia, and State of Pennsylvania, one of the United States of America, Engineer, for an invention for—" Improvements in constructing the permanent way of railroads."
Letters Patent sealed.

OWEN. 28th May 1856.

1270. LEMUEL D. OWEN, of Southampton Street, London, in the County of Middlesex, Engineer, for an invention for—" Improvements in the manufacture of artificial stone."—*A communication.* *Letters Patent sealed.*

MACDONALD. 28th May 1856.

1271. JOHN MACDONALD, of No. 13, Henry Street, Upper Kennington Lane, Vauxhall, in the County of Surrey, Machinist, for an invention for—" Improvements in the reflection, emission, and radiation of light and heat, for lamps, light-house apparatus, and other useful purposes." *Provisional protection only.*

CLARK. 28th May 1856.

1272. JOSEPH CLARK, of Buckskin Farm, Basingstoke, Hants, for an invention for—" An improved horse hoe." *Provisional protection only.*

FULTON. 28th May 1856.

1273. WILLIAM FULTON, of Glasgow, in the County of Lanark, North Britain, Wool Spinner, for an invention for—" Improvements in preparing and spinning fibrous materials, and in machinery or apparatus employed therein."
Provisional protection only.

HOLT. 28th May 1856.

1274. CHARLES HERBERT HOLT, of the City of Manchester, in the County of Lancaster, Engineer, for an invention for—" Improvements in steam-boilers, furnaces for the same, and apparatus connected therewith." *Letters Patent sealed.*

BELL. GRIMES. 28th May 1856.

1275. GEORGE BELL, and GEORGE GRIMES, Fuzee and Match Manufacturers, No. 1, Vauxhall Walk, Lambeth, for an invention for—" Improvements in the manufacture of frictional matches and fuzees." *Letters Patent sealed.*

BROOMAN. 28th May 1856.

1276. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent Agent, for an invention for—" An improved coating or composition to be applied to substances in order to render them uninflammable, and in the method of and apparatus for manufacturing the same."—*A communication from Madame Boulard.* *Provisional protection only.*

WHITTAKER. WALLWORK. 28th May 1856.

1277. OLDHAM WHITTAKER, of Hurst, near Ashton-under-Lyne, in the County of Lancaster, Manufacturer, and CYRUS WALLWORK, of the same place, Manager, for an invention for—" Improvements in weaving figured fabrics."
Letters Patent sealed.

VAN-DEN-HOUT. 30th May 1856.

1278. HERMAN JOHN VAN-DEN-HOUT, of Covent Garden, in the County of Middlesex, Artist, for an invention for—" Improvements in the preparation of pulp for the manufacture of paper, millboard, and other like purposes."
Provisional protection only.

DREW. GRAY. 30th May 1856.

1279. ALEXANDER DREW, of Glasgow, in the County of Lanark, North Britain, and MATTHEW GRAY, of Bonhill, in the County of Dumbarton, North Britain, Calico Printers, for an invention for—" Improvements in weaving."
Letters Patent sealed; no specification filed.

BETHUNE. 30th May 1856.

1280. DONALD BETHUNE, of Cambridge Terrace, Hyde Park, in the County of Middlesex, Esquire, for an invention for—" Certain improvements in apparatus for dyeing." *Provisional protection only.*

HUTTON. 30th May 1856.

1281. WILLIAM CARR HUTTON, of Sheffield, in the County of York, Manufacturer, for an invention for—" Improvements in stamps or hammers worked by power."
Letters Patent sealed.

WEEMS. M'CRINDELL. 30th May 1856.

1282. JOHN WEEMS, of Johnstone, in the County of Renfrew, North Britain, and JOHN HENDERSON M'CRINDELL, of Glasgow, in the County of Lanark, North Britain, Engineers, for an invention for—" Improvements in the manufacture or working of metals and their ores." *Letters Patent sealed.*

STOTT. BELWARD. FINDLOW. 30th May 1856.

1283. FREDERICK LUKE STOTT, of Rochdale, Mechanic, THOMAS BELWARD, of the City of Manchester, Joiner, and JAMES FINDLOW, of the same place, Joiner, all in the County of Lancaster, for an invention for—" Improvements in machinery or apparatus for washing wool, or garments and other articles made of textile fabrics."
Letters Patent sealed.

HEAL.
30th May 1856.

1284. JOHN HARRIS HEAL, of 196, Tottenham Court Road, in the County of Middlesex, for an invention for—"An improvement in hair and wool mattresses."
Letters Patent sealed.

BONVALLET.
31st May 1856.

1285. ADOLPHE BONVALLET, of No. 39, Rue de l'Echiquier, Paris, and 4, South Street, Finsbury, London, Manufacturer, for an invention for—"Certain improvements in printing woven fabrics, velvet, skins, and other like materials."
Letters Patent sealed; no specification filed.

CALVERT.
31st May 1856.

1286. FRANCIS ALTON CALVERT, of the City of Manchester, Engineer, for an invention for—"Improvements in machinery for opening, cleaning, and carding cotton and other fibrous materials." *Letters Patent sealed.*

WATSON.
WILLIAMS.
31st May 1856.

1287. ALFRED WATSON, and ALFRED HAMLYN WILLIAMS, of Cornhill, in the City of London, Stationers, for an invention for—"An improvement in bottles, flasks, and other like receptacles for liquids." *Letters Patent sealed.*

NEEDHAM.
KITE.
31st May 1856.

1288. WILLIAM NEEDHAM, and JAMES KITE (secundus), both of Vauxhall, in the County of Surrey, Engineers, for an invention for—"Improvements in machinery or apparatus for expressing liquids or moisture from substances."—*Complete specification.*
Letters Patent sealed.

ALLMAN.
BETHUNE.
31st May 1856.

1289. FENNELL ALLMAN, of Cambridge Terrace, Hyde Park, County of Middlesex, Consulting Engineer, and DONALD BETHUNE, of the same place, Esquire, for an invention for—"Certain improvements in apparatus for separating fluids from solids, or for separating the more fluid particles from the more solid of various bodies."
Provisional protection only.

BESSEMER.
31st May 1856.

1290. HENRY BESSEMER, of 4, Queen Street Place, New Cannon Street, in the City of London, for an invention for—"Improvements in shaping, pressing, and rolling malleable iron and steel." *Letters Patent sealed.*

JOBSON.
31st May 1856.

1291. ROBERT JOBSON, of Wordsley, in the County of Stafford, Iron Founder, for an invention for—"Improvements in apparatus for making moulds for casting metals."
Letters Patent sealed.

BESSEMER.
31st May 1856.

1292. HENRY BESSEMER, of 4, Queen Street Place, New Cannon Street, in the City of London, for an invention for—"Improvements in the manufacture of iron and steel." *Letters Patent sealed.*

GOSSAGE.
31st May 1856.

1293. WILLIAM GOSSAGE, of Widnes, in the County of Lancaster, Chemist, for an invention for—"Improvements in the manufacture of certain kinds of soap."
Letters Patent sealed.

SPINK.
31st May 1856.

1294. DANIEL SPINK, of Bridgwater, in the County of Somersetshire, Engineer, for an invention for—"Improvements in rails and railways."—*Provisional protection only.*

FOWKE.
31st May 1856.

1295. FRANCIS FOWKE, of Pall Mall, in the County of Middlesex, Captain in Her Majesty's Corps of Royal Engineers, for an invention for—"An improved portable photographic camera." *Provisional protection only.*

BLACKWOOD.
2nd June 1856.

1296. ROBERT BLACKWOOD, senior, of Kilmarnock, in the County of Ayr, North Britain, Worsted Spinner, for an invention for—"Improvements in machinery or apparatus for doubling yarns or threads." *Letters Patent sealed.*

CARTWRIGHT.
2nd June 1856.

1297. HENRY CARTWRIGHT, of the Dean Broseley, in the County of Salop, for an invention for—"Improvements in the application of steam cocks to steam-engines, and in working such engines thereby." *Letters Patent sealed.*

WILSON.
2nd June 1856.

1298. THOMAS WILSON, of Birmingham, in the County of Warwick, Engineer, for an invention for—"Improvement or improvements in screw wrenches."
Letters Patent sealed.

GIDLEY.
CHRISTOPHER.
2nd June 1856.

1299. GUSTAVUS GIDLEY, of 14, Clinger Street, Hoxton, and WILLIAM CHRISTOPHER, of No. 2, Oak Villa, Pinner, Middlesex, for an invention for—"Reducing the bottle or imported india-rubber to a transparent liquid state, so that it may be used as a transparent varnish or solution for mixing with colours." *Letters Patent sealed.*

PARKHURST.
2nd June 1856.

1300. STEPHEN ROSSIN PARKHURST, of the City and State of New York, United States of America, for an invention for—"Improvements in paddle-wheels for steam boats and vessels." *Letters Patent sealed.*

HEYWOOD. 2nd June 1856.

1301. BENNETT JOHNS HEYWOOD, of Leicester Square, in the County of Middlesex, Gentleman, for an invention for—"An improved construction of holder for leads and other marking materials." *Letters Patent sealed.*

DIEUDONNÉ. 2nd June 1856.

1302. LOUIS AUGUSTE DIEUDONNÉ, of No. 35, Essex Street, Strand, in the County of Middlesex, Gentleman, for an invention for—"Improvements in nose bags."—*A communication.* *Provisional protection only.*

CADET. 2nd June 1856.

1303. AUGUSTE CADET, of No. 36, College Street North, Camden Town, Gentleman, for an invention for—"Improved stamp inking apparatus."—*A communication.* *Letters Patent sealed.*

HERLAND. 2nd June 1856.

1304. AUGUSTIN MARIE HERLAND, of Paris, in the Empire of France, Gentleman, for an invention for—"A new regulator pen holder." *Letters Patent sealed.*

MAUBAN. 2nd June 1856.

1305. VICTOR JEAN BAPTISTE MAUBAN, of 39, Rue de l'Echiquier, Paris, and 4, South Street, Finsbury, Lamp Manufacturer, for an invention for—"Certain improvements in the manufacture of cans for holding oil and other liquids." *Letters Patent sealed.*

M'CONNELL. 2nd June 1856.

1306. JAMES EDWARD M'CONNELL, of Wolverton, in the County of Buckingham, Civil Engineer, for an invention for—"Improvements in locomotive engines." *Letters Patent sealed.*

AVERY. 2nd June 1856.

1307. DELIA AVERY, of Essex Street, London, for an invention for—"Improvements in the construction of bonnets and other coverings for the head." *Letters Patent sealed.*

NASMYTH. BROWN. 2nd June 1856.

1308. JAMES NASMYTH, of Patricroft, in the County of Lancaster, Engineer, and JAMES BROWN, of Newport, in the County of Monmouth, Tin Plate Manufacturer, for an invention for—"Improvements in apparatus for the manufacture of tin plates." *Letters Patent sealed.*

GROLEY. 2nd June 1856.

1309. JOSEPH GROLEY, Mechanic, of Paris, Town in the French Empire, for an invention for—"An improved plough." *Provisional protection only.*

MARSDEN. 2nd June 1856.

1310. EDWARD MARSDEN, of Handley Wood, in the County of Derby, Agriculturalist, for an invention for—"Improvements in implements for pulverizing and cleaning land." *Letters Patent sealed.*

BEADON. 2nd June 1856.

1311. WILLIAM BEADON, of Otterhead, Honiton, in the County of Devon, for an invention for—"Improvements in agricultural implements for cleaning, cultivating, and rolling land." *Provisional protection only.*

COTTAM. COTTAM. 2nd June 1856.

1312. GEORGE HALLEN COTTAM, and HENRY RICHARD COTTAM, of St. Pancras Iron Works, Old St. Pancras Road, for an invention for—"An improvement in the manufacture of hurdles." *Provisional protection only.*

WILLETT. 3rd June 1856.

1313. THOMAS WILLIAM WILLETT, of 89, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in the manufacture of gunpowder." *Letters Patent sealed.*

MACKELCAN. 3rd June 1856.

1314. GEORGE JOSIAH MACKELCAN, of Islington, in the County of Middlesex, Engineer, for an invention for—"Improvements in the manufacture of rollers adapted to calico and other printing." *Letters Patent sealed.*

HEYWOOD. DIXON. 3rd June 1856.

1315. EDWIN HEYWOOD, of Sutton Cross Hills, Leeds, Designer, and THOMAS OGDEN DIXON, of Steeton, near Keighley, Bobbin Manufacturer, both in the County of York, for an invention for—"Improvements in the means of attaching drawer and other knobs or handles." *Letters Patent sealed.*

WESSEL. KUKLA. 3rd June 1856.

1316. CHRISTIAN RUDOLPH WESSEL, of 25, Fitzroy Square, New Road, Gentleman, and FRANCIS XAVIER KUKLA, of 3, Raven Row, Mile End Road, Doctor of Philosophy, both in the County of Middlesex, for an invention for—"A vapourless glow heat disseminator." *Letters Patent sealed.*

BAUZEMONT. 3rd June 1856.

1317. JOSEPH BAUZEMONT, of Paris, France, for an invention for—"Improvements in purifying turpentine." *Letters Patent sealed.*

JOHNSON. 3rd June 1856.

1318. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in oil cans employed in lubricating machinery."—*A communication from Joseph François Bérendorf, of Paris, in the Empire of France, Mechanician.*
Letters Patent sealed.

WHITEHEAD. HARWOOD. 3rd June 1856.

1319. WALTER GEORGE WHITEHEAD, of Birmingham, in the County of Warwick, Manufacturer, and FREDERICK AUGUSTUS HARWOOD, of Birmingham aforesaid, Machinist, for an invention for—"A new or improved candlestick."
Provisional protection only.

LEBAILLIF. 3rd June 1856.

1320. JEAN JACQUES LEBAILLIF, Manufacturer, of Falaise, Town in the French Empire, for an invention for—"Improvements in beating, cleaning, napping, and dressing cotton, wool, flax, tow, and other similar fibrous substances, and stuffs or woollen cloths." *Provisional protection only.*

FLETCHER. FLETCHER. 3rd June 1856.

1321. RAYMOND FLETCHER, of Derby, in the County of Derby, Painter, and EDWIN FLETCHER, of Monk Bretton, in the County of York, Paper Stainer, for an invention for—"Improvements in sweeping chimneys or other flues."
Letters Patent sealed.

LEVERSON. 3rd June 1856.

1322. MONTAGUE RICHARD LEVERSON, Solicitor, of St. Helen's Place, London, for an invention for—"Improvements in tackle blocks."—*A communication.*
Letters Patent sealed.

VERDEIL. 3rd June 1856.

1323. FRANÇOIS AUGUSTE VERDEIL, Medical Doctor, residing at No. 30, Rue St. Sulpice, in the City of Paris, in France, for an invention for—"Improvements in obtaining a particular green colouring matter from artichokes and thistles."
Provisional protection only.

BRIGGS. 4th June 1856.

1324. JOSEPH BRIGGS, of Fleet Street, in the City of London, Gentleman, for an invention for—"Improvements in blocks and bricks for building."
Letters Patent sealed.

MORRIS. 4th June 1856.

1325. THOMAS MORRIS, of Bunney, in the County of Nottingham, Farmer, for an invention for—"An improved trap for beetles and other insects."
Letters Patent sealed.

GATTY. 4th June 1856.

1326. FREDERICK ALBERT GATTY, of Accrington, in the County of Lancaster, Manufacturing Chemist, for an invention for—"An instrument to be used in lighting and holding matches or vesta lights." *Letters Patent sealed.*

BULLOUGH. 4th June 1856.

1327. ADAM BULLOUGH, of Blackburn, in the County of Lancaster, Manufacturer, for an invention for—"Improvements in the mode or method of leasing warps."
Provisional protection only.

POTTS. 4th June 1856.

1328. WILLIAM POTTS, of Handsworth, in the County of Stafford, Manufacturer, for an invention for—"Improvements in sepulchral monuments."—*Letters Patent sealed.*

WIGLEY. 4th June 1856.

1329. REUBEN BOYCE WIGLEY, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"A new or improved method of attaching handles to coffins." *Letters Patent sealed.*

HATTON. 4th June 1856.

1330. EDWARD HATTON, of Birmingham, in the County of Warwick, Metallic Bedstead Manufacturer, for an invention for—"Improvements in the manufacture of plain and ornamented metallic tubes." *Letters Patent sealed.*

MORRISON. 4th June 1856.

1331. DUNCAN MORRISON, of Bordesley Works, Birmingham, for an invention for—"Improvements in the manufacture of metallic bedsteads and other articles to sit or recline on." *Letters Patent sealed.*

MARLE. 4th June 1856.

1332. CHARLES LOUIS MARLE, of Hotel du Continent, 46, Leadenhall Street, in the City of London, for an invention for—"Improvements in preserving animal and vegetable substances suitable for food." *Provisional protection only.*

MORRISON. 4th June 1856.

1333. DUNCAN MORRISON, of Bordesley Works, Birmingham, for an invention for—"Improvements in the manufacture of articles from malleable cast iron."
Letters Patent sealed.

CHRISTOPHERS. 4th June 1856.

1334. JOHN CHRISTOPHERS, of Heavitree, in the County of Devon, formerly a Merchant, for an invention for—"Improvements in knives and forks whose handles are not metallic." *Letters Patent sealed.*

BROOMAN. 4th June 1856.

1335. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent Agent, for an invention for—"Improvements in plating glass to render it reflective."—*A communication.* *Letters Patent sealed.*

SMITH. 4th June 1856.

1336. WILLIAM SMITH, of 82, Margaret Street, Cavendish Square, in the County of Middlesex, Engineer, for an invention for—"Improvements in apparatus for regulating the supply of air to furnaces." *Letters Patent sealed.*

GIBON. FRÖHLICH. 4th June 1856.

1337. ALEXANDRE LOUIS GIBON, and ANDRÉ FRÖHLICH, of 39, Rue de l'Echiquier, Paris, and of No. 4, South Street, Finsbury, London, for an invention for—"Certain improvements in economising fuel in the treatment of metals." *Letters Patent sealed.*

BETTS. 5th June 1856.

1338. JOHN BETTS, of the Strand, in the County of Middlesex, Publisher, for an invention for—"Improvements in the preparation or manufacture of artificial spheres." *Letters Patent sealed.*

NORRIS. 5th June 1856.

1339. JOHN NORRIS, junior, of New York, in the United States of America, but at present residing in Birmingham, in the County of Warwick, Gentleman, for an invention for—"An improvement or improvements in the manufacture of the cutting tools employed in nail-making machines."—*A communication.* *Letters Patent sealed.*

LE BRETON. 5th June 1856.

1340. JULES LE BRETON, of No. 18, King's Arms Yard, Coleman Street, in the City of London, for an invention for—"A Photo-gas or apparatus with air draughts of hot oxygen when applied to oil lamps, with wicks for lighting and heating."—*A communication from François Alfred Chatel, jeune, of Paris.* *Provisional protection only.*

BRAE. 5th June 1856.

1341. ANDREW EDMUND BRAE, of Leeds, in the County of York, for an invention for—"Improvements in apparatus for communicating signals from one part of a railway train to another." *Letters Patent sealed.*

SINCLAIR. 5th June 1856.

1342. ARCHIBALD SINCLAIR, of Birmingham, in the County of Warwick, Engineer, for an invention for—"An improvement or improvements in wrought iron pins for railway chair fastenings." *Letters Patent sealed.*

HEWITSON. BARTHOLOMEW. 5th June 1856.

1343. WILLIAM WATSON HEWITSON, of Headingley, near Leeds, and WILLIAM HAMOND BARTHOLOMEW, of 15, Brunswick Terrace, Leeds, for an invention for—"Improvements in the construction of the furnaces or fire-boxes of tubular steam-boilers." *Letters Patent sealed.*

DALLAS. 5th June 1856.

1344. DUNCAN CAMPBELL DALLAS, of Islington, in the County of Middlesex, Gentleman, for an invention for—"Improvements in chemical preparations applicable to the photographic and photo-galvano-graphic processes."—*Provisional protection only.*

LANG. 6th June 1856.

1345. DUNCAN LANG, of Greenock, in the County of Renfrew, North Britain, Engineer, for an invention for—"Improvements in obtaining and applying motive-power." *Letters Patent sealed; no specification filed.*

ROBINSON. 6th June 1856.

1346. JOSEPH ROBINSON the younger, of Hyde, in the County of Chester, Builder, for an invention for—"Improvements in railway chairs or in means for securing rails thereto." *Provisional protection only.*

BEYER. 6th June 1856.

1347. CHARLES BEYER, of the firm of Beyer, Peacock, & Company, Engineers, at Gorton, near Manchester, in the County of Lancaster, for an invention for—"Improvements in locomotive engines." *Provisional protection only.*

HARLOW. 6th June 1856.

1348. ROBERT HARLOW, of Stockport, in the County of Lancashire, Brass Founder, for an invention for—"Improvements in the construction of waterclosets, and in valves or taps for waterclosets and other purposes." *Letters Patent sealed.*

SOMERVILLE. 6th June 1856.

1349. JAMES SOMERVILLE, of Glasgow, in the County of Lanark, North Britain, Manager, for an invention for—"Improvements in weaving."—*Letters Patent sealed.*

GARDISSAL. 6th June 1856.

1350. CHARLES DURAND GARDISSAL, of 10, Bedford Street, Strand, London, and of 29, Boulevart St. Martin, Paris, Patent Agent, for an invention for—"Improvements in machinery for extracting fibrous and other products from vegetable substances."—*A communication.* *Letters Patent sealed.*

JUCKES. 6th June 1856.

1351. JOHN JUCKES, of Dame Street, Islington, for an invention for—"Improvements in the furnaces of locomotive boilers." *Provisional protection only.*

CHAMBERS. 6th June 1856.

1352. THOMAS CHAMBERS, junior, of Colkirk, Fakenham, in the County of Norfolk, for an invention for—"Improvements in agricultural drills." *Letters Patent sealed.*

FONTAINEMOREAU. 6th June 1856.

1353. PETER ARMAND LE COMTE DE FONTAINEMOREAU, of 39, Rue de l'Echiquier, Paris, in the French Empire, and No. 4, South Street, Finsbury, London, Patent Agent, for an invention for—"Certain improvements in heating water for steam-boilers."—*A communication.* *Provisional protection only.*

NEWTON. 6th June 1856.

1354. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Certain improvements in rotary engines."—*A communication.* *Provisional protection only.*

ELLISON. 6th June 1856.

1355. PAUL ELLISON, of St. Helen's, Lancashire, Manufacturing Chemist, for an invention for—"Improvements in furnaces and the mode of working the same, for the manufacture of black ash or crude soda." *Provisional protection only.*

STAMM. 7th June 1856.

1356. ADAM STAMM, of Buenos Ayres, in South America, Engineer, for an invention for—"Improvements in presses for packing, parts of which improvements are also applicable to other presses." *Letters Patent sealed.*

NEWTON. 7th June 1856.

1357. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"An improved furnace for heating soldering irons."—*A communication.* *Letters Patent sealed.*

WILEY. 7th June 1856.

1358. WILLIAM EDWARD WILEY, of 34, Great Hampton Street, Birmingham, Pen and Pencil Manufacturer, for an invention for—"Improvements in the manufacture of metallic pens and pen holders." *Letters Patent sealed.*

RUCK. TOUCHE. 7th June 1856.

1359. WILLIAM DENNY RUCK, of Toppin's Wharf, and VICTOR TOUCHE, of 14, Rathbone Place, Oxford Street, in the County of Middlesex, for an invention for—"Improvements in the manufacture of paper from fibres not hitherto applied to such purposes." *Letters Patent sealed.*

DYER. 7th June 1856.

1360. SAMUEL DYER, of the City of Bristol, Ship Owner, for an invention for—"Improvements in reefing, furling, and setting the sails of ships and vessels, also for protecting such sails from wet and other abuses caused by ropes and rigging." *Letters Patent sealed.*

ROBERTSON. 9th June 1856.

1361. ALEXANDER ROBERTSON, of the City of Dublin, Surgical Instrument Maker, for an invention for—"An improved inkstand." *Letters Patent sealed.*

HOWELL. 9th June 1856.

1362. JOSEPH BENNETT HOWELL, of Sheffield, in the County of York, Steel Manufacturer, for an invention for—"Improvements in the manufacture of cast steel tires for railway locomotive engine and carriage wheels." *Provisional protection only.*

SIEMENS. 9th June 1856.

1363. CHARLES WILLIAM SIEMENS, of 7, John Street, Adelphi, in the County of Middlesex, for an invention for—"Improvements in engines wherein super-heated steam is used." *Letters Patent sealed.*

FIELD. JEFFREYS. 9th June 1856.

1364. WILLIAM FIELD, and EDWARD JEFFREYS, both of Shrewsbury, in the County of Salop, Gentlemen, for an invention for—"Improvements in machinery for sowing seed and for distributing manure." *Provisional protection only.*

FERRIER. 9th June 1856.

1365. ROBERT FERRIER, of Jedburgh, in the County of Roxburgh, North Britain, Smith and Machine Maker, for an invention for—"Improvements in machinery or apparatus for sweeping and cleansing roads and streets." *Letters Patent sealed.*

HOLDIN. 9th June 1856.

1366. JAMES HOLDIN, of Manchester, in the County of Lancaster, Paper Manufacturer, for an invention for—"Certain improvements in machinery or apparatus for washing rags, which said improvements are also applicable for washing other materials." *Letters Patent sealed.*

HOLDIN. 9th June 1856.

1367. JAMES HOLDIN, of Manchester, in the County of Lancaster, Paper Manufacturer, for an invention for—"Certain improvements in machinery or apparatus for bowking, bleaching, dyeing, and washing textile fabrics or materials." *Letters Patent sealed.*

JOHNSON. 9th June 1856.

1368. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in the construction of rails for railways and in the mode of securing the ends of rails for railways."—*A communication.* *Letters Patent sealed.*

ELLIS.
9th June 1856.

1369. JOHN ELLIS, of Heckmondwicke, in the County of York, Surgeon, for an invention for—"Improvements in the manufacture of muriate of ammonia and carbonate of ammonia, and in converting certain ingredients employed therein into an artificial manure." *Letters Patent sealed.*

SMITH.
KALTHOFF.
9th June 1856.

1370. BENJAMIN SMITH, and WILLIAM KALTHOFF, of Gemünd, near Cologne, in the Kingdom of Prussia, for an invention for—"Improvements in economizing fuel in the locomotive and other steam-engines."—*Letters Patent sealed; specification filed 8th January 1857, by order.*

SMITH.
9th June 1856.

1371. WILLIAM SMITH, of Hastings, in the County of Sussex, Chemist, for an invention for—"A material for the destruction of flies, gnats, and other insects."—*A communication.* *Provisional protection only.*

BROOMAN.
9th June 1856.

1372. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent Agent, for an invention for—"Improvements in ladies' wearing-apparel."—*A communication from P. M. Hebert, of Paris.* *Provisional protection only.*

SKAIFE.
10th June 1856.

1373. THOMAS SKAIFE, at present residing at Vanbrugh House, Greenwich, in the County of Kent, for an invention for—"Spring folding camera shutters for the more speedy and convenient mode of taking photographic pictures than has been hitherto adopted." *Letters Patent sealed.*

WAGNER.
10th June 1856.

1374. HENRY WAGNER, of Everitt Street, Russell Square, in the County of Middlesex, Upholsterer, for an invention for—"Improvements in beds and mattresses and in similar articles of bedding." *Provisional protection only.*

BROOMAN.
10th June 1856.

1375. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent Agent, for an invention for—"Improvements in printing shawls and other fabrics, and in the machinery employed therein."—*A communication from Monsieur Herrmann.* *Letters Patent sealed.*

BROOKES.
10th June 1856.

1376. WILLIAM BROOKES, of 73, Chancery Lane, in the County of Middlesex, for an invention for—"Improvements in the treatment of corn."—*A communication.* *Provisional protection only.*

PIETRONI.
10th June 1856.

1377. CARLO PIETRONI, of London Wall, in the City of London, Merchant, for an invention for—"Improvements in printing on cloth and other fabrics."—*A communication from Guiseppe Bossi, of Vienna.* *Letters Patent sealed.*

PARSONS.
10th June 1856.

1378. PERCEVAL MOSES PARSONS, of Duke Street, Adelphi, in the County of Middlesex, Civil Engineer, for an invention for—"Certain improvements in the permanent way of railways." *Letters Patent sealed.*

CHESHIRE.
BETTELEY.
10th June 1856.

1379. CHARLES ROWE CHESHIRE, of Liverpool, in the County of Lancaster, Anchor Manufacturer, and JOSEPH BETTELEY, of the same place, Anchor Manufacturer, for an invention for—"Improvements in the manufacture of anchors." *Provisional protection only.*

PREUX.
10th June 1856.

1380. ARMAND EUGÈNE PREUX, of Paris, in the Empire of France, for an invention for—"Warming railway and other vehicles." *Letters Patent sealed.*

NEWTON.
10th June 1856.

1381. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"An improvement in projectiles for ordnance."—*A communication.* *Letters Patent sealed.*

WILSON.
10th June 1856.

1382. WILLIAM WILSON, of Newcastle-upon-Tyne, Fur Cutter, for an invention for—"Improvements in machinery for pulling the hair from coney and other skins."—*Partly a communication.* *Letters Patent sealed.*

JAMES.
11th June 1856.

1383. HENRY BENSON JAMES, of Derby, in the County of Derbyshire, Engineer, for an invention for—"Improvements in moulding metallic castings." *Letters Patent sealed.*

WESTWOOD.
WRIGHT.
WRIGHT.
11th June 1856.

1384. WILLIAM HENRY WESTWOOD, THOMAS WRIGHT, and EDWARD WRIGHT, of Queen's Cross, Dudley, in the County of Worcester, Boiler and Gas-holder Makers and Engineers, for an invention for—"An improved stop or regulating valve." *Letters Patent sealed.*

BAYLISS.
11th June 1856.

1385. WILLIAM BAYLISS, of Birmingham, in the County of Warwick, Tube Maker, for an invention for—"A new or improved manufacture of ornamental metallic tubes." *Letters Patent sealed.*

JOHNSON. 11th June 1856.

1386. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in the manufacture of safety paper."—*A communication from Victor Corboulay, of Place du Caire, Paris, in the Empire of France, Civil Engineer.* *Letters Patent sealed.*

COMBE. 11th June 1856.

1387. JAMES COMBE, of Belfast, in the Kingdom of Ireland, Machine Maker, for an invention for—"Improvements in machinery for carding and roving tow and other fibrous substances;—part of which improvements is applicable for transmitting motion in other mechanism." *Letters Patent sealed.*

NEWTON. 11th June 1856.

1388. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improvements in breech-loading fire-arms."—*A communication.* *Letters Patent sealed.*

BROOMAN. 12th June 1856.

1389. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent Agent, for an invention for—"Improvements in the manufacture of spoons, forks, and other similar articles, and in the machinery employed therein."—*A communication from William Couraetz, of Vienna.* *Letters Patent sealed.*

EIVES. 12th June 1856.

1390. JAMES EIVES, of 17, Cornhill, London, for an invention for—"Improved machinery for extracting oil from oleaginous seeds."—*A communication.* *Letters Patent sealed.*

HARDWICK. 12th June 1856.

1391. PHILIP WESLEY HARDWICK, of Gibson Square, in the County of Middlesex, Gentleman, for an invention for—"An improved manufacture of tickets for railway and other uses." *Provisional protection only.*

UNWIN. UNWIN. 12th June 1856.

1392. PHILIP UNWIN, and JOHN UNWIN, of the firm of Unwin & Rodgers, of 124, Rockingham Street, Sheffield, in the County of York, Cutlery Manufacturers, for an invention for—"Improvements in the manufacture of pen and pocket knifes." *Letters Patent sealed.*

SPILL. 12th June 1856.

1393. DANIEL SPILL, of the firm of George Spill and Company, of Stepney Green, in the County of Middlesex, Waterproofers, for an invention for—"Improvements in purifying spirits of tar or coal tar naphtha." *Provisional protection only.*

FAIRCLOUGH. 12th June 1856.

1394. JAMES FAIRCLOUGH, of Liverpool, in the County of Lancaster, Upholsterer and Cabinet Maker, for an invention for—"An improved expander and contractor for dining tables." *Letters Patent sealed.*

STENHOUSE. 12th June 1856.

1395. JOHN STENHOUSE, of 15, Upper Barnsbury Street, Islington, for an invention for—"Improvements in the preparation of a decolourizing material suitable for the treatment of acid, alkaline, and neutral solutions." *Letters Patent sealed.*

LEWSEY. 12th June 1856.

1396. CHARLES JOHN LEWSEY, of Albion Terrace, Commercial Road East, in the County of Middlesex, Engineer, for an invention for—"Improvements in sugar cane mills." *Provisional protection only.*

STOTT. 12th June 1856.

1397. GEORGE LOUIS STOTT, of St. George's, in the County of Gloucester, for an invention for—"Improvements in purifying gas." *Provisional protection only.*

COWBURN. 13th June 1856.

1398. THOMAS COWBURN, of the City of Manchester, Engineer, for an invention for—"Improvements in valves for reducing the pressure of steam or other liquids or fluids." *Provisional protection only.*

MASSEY. 13th June 1856.

1399. WILLIAM MASSEY, of the City of Manchester, in the County of Lancaster, Manager, for an invention for—"Improvements in looms for weaving." *Letters Patent sealed.*

DUMÉRY. 13th June 1856.

1400. CONSTANT JOUFFROY DUMÉRY, of Paris, in the Empire of France, Civil Engineer, for an invention for—"Improvements in machinery to be used for manufacturing shoes and boots." *Letters Patent sealed.*

WHITMORE. 13th June 1856.

1401. WILLIAM RICHARD WHITMORE, of Cambridge Terrace, Clapham Road, in the County of Surrey, Engineer, for an invention for—"Improvements in multitubular steam-boilers." *Provisional protection only.*

MASON. 13th June 1856.

1402. WILLIAM MASON, of Pembroke, Dock Inspector of Joiners in Her Majesty's Dockyard at Pembroke, for an invention for—"An improved rowlock for boats." *Provisional protection only.*

LE CAPPELAIN. 13th June 1856.

1403. JOHN LE CAPPELAIN, of 42, New Bridge Street, Blackfriars, for an invention for—"Improvements in machinery for bending sheet iron into corrugated forms for constructing beams."—*A communication.* *Provisional protection only.*

DE JONG. 13th June 1856.

1404. SERVAAS DE JONG, of 17, New Hampstead Road, in the County of Middlesex, for an invention for—"Improvements in warming and ventilating apartments and buildings." *Letters Patent sealed.*

JACOT. 13th June 1856.

1405. WILLIAM JACOT, of Molyneux Place, Water Street, in Liverpool, in the County of Lancaster, Merchant, for an invention for—"Improvements in fire-arms." —*A communication.* *Letters Patent sealed.*

FONTAINEMOREAU. 13th June 1856.

1406. PETER ARMAND LE COMTE DE FONTAINEMOREAU, of 39, Rue de l'Echiquier, Paris, and of 4, South Street, Finsbury, London, for an invention for—"Certain improvements in shipbuilding."—*A communication.* *Letters Patent sealed.*

MÈGE. 14th June 1856.

1407. HYPOLITTE MÈGE, Chemist, of Paris (Empire of France), for an invention for—"Improvements in the manufacture of bread." *Letters Patent sealed.*

BUNNETT. BUNNETT. 14th June 1856.

1408. JOSEPH BUNNETT, and JOSEPH GEORGE BUNNETT, of Deptford, in the County of Kent, Engineers, for an invention for—"Improvements in the manufacture of sash-bars, columns, and mouldings for building and decorative purposes." *Provisional protection only.*

MACHARD. 14th June 1856.

1409. JOHN ETIENNE MACHARD, Chemist, of Annecy, Town in the Kingdom of Piedmont, for an invention for—"Improvements in printing or dyeing skeins, tissues, or other textile fabrics of cotton, wool, flax, and other fibrous substances."—*A communication from J. P. Vautravers, of Annecy.* *Provisional protection only*

DE CHÂTEAUNEUF. 14th June 1856.

1410. HECTOR GRAND DE CHÂTEAUNEUF, of Paris, in the Empire of France, and of 45, Essex Street, Strand, London, Civil Engineer, for an invention for—"Improvements in apparatus for washing and bleaching clothes and other materials, to be called 'The Steam Washing Lixiviateur.'"—*Complete specification.* *Letters Patent sealed.*

FONTAINEMOREAU. 14th June 1856.

1411. PETER ARMAND LE COMTE DE FONTAINEMOREAU, of 39, Rue de l'Echiquier, Paris, in the Empire of France, and 4, South Street, Finsbury, London, Agent for Patents for Invention, for an invention for—"Certain improvements in metallic packing for stuffing-boxes and pistons."—*A communication.* *Letters Patent sealed.*

AUBLET. 14th June 1856.

1412. ETIENNE AUGUSTE AUBLET, of Paris, in the Empire of France, for an invention for—"Improvements in rotary engines." *Provisional protection only.*

WRIGHT. 14th June 1856.

1413. WILLIAM WRIGHT, of the firm of Wright Brothers, Forth Street, Newcastle-on-Tyne, in the County of the same, Glass Manufacturer, for an invention for—"Improvements in the manufacture of articles of glass and plastic materials, by means of pressure." *Provisional protection only.*

SEED. 14th June 1856.

1414. WILLIAM SEED, of Preston, in the County of Lancaster, Machine Maker, for an invention for—"Certain improvements in 'lap machines' or apparatus used in the preparation of cotton and other fibrous substances for spinning." *Letters Patent sealed.*

LINDNER. 14th June 1856.

1415. EDWARD LINDNER, of the City and State of New York, United States of America, for an invention for—"Improvements in breech-loading fire-arms." *Letters Patent sealed.*

SUTCLIFFE. LEECH. 16th June 1856.

1416. JOSEPH SUTCLIFFE, of Rochdale, in the County of Lancaster, Foreman, and JAMES LEECH, of the same place, Cotton Spinner, for an invention for—"Improvements in machinery or apparatus for opening, cleaning, and preparing cotton, wool, and other fibrous substances." *Letters Patent sealed.*

DESNOS. 16th June 1856.

1417. CHARLES DESNOS, of Bedford Street, Strand, in the County of Middlesex, for an invention for—"Improvements in furnaces for consuming smoke."—*A communication from Mr. Coullard Descos, of Paris.* *Letters Patent sealed.*

GUÉRIN. 16th June 1856.

1418. EDOUARD GUÉRIN, of Paris, in the Empire of France, Civil Engineer, for an invention for—"A self-acting apparatus for working railway breaks." *Letters Patent sealed.*

BARLOW. WOODHOUSE. 16th June 1856.

1419. WILLIAM HENRY BARLOW, of Derby, Civil Engineer, and WILLIAM HENRY WOODHOUSE, of Parliament Street, Westminster, Civil Engineer, for an invention for—"Improvements in connecting and securing the ends of rails of railways." *Letters Patent sealed.*

MANNIX.
16th June 1856.

1420. JAMES BALL MANNIX, of Westminster, in the County of Middlesex, for an invention for—"A method of applying locomotive power to the working of inclines."—*A communication.* *Letters Patent sealed.*

TURNER.
HULME.
BLACKBURN.
16th June 1856.

1421. WILLIAM TURNER, of Tunnicliffe, near Rochdale, Woollen Carder, and GEORGE HULME, of 4, George Street, Rochdale, Machine Maker, and HENRY BLACKBURN, of Milnrow, near Rochdale aforesaid, Manager, for an invention for—"Improvements in condensing and other carding-engines, billies, and mules, for carding, slubbing, and spinning woollen, cotton, or other fibrous substances." *Provisional protection only.*

GEDGE.
17th June 1856.

1422. JOHN GEDGE, of No. 4, Wellington Street South, Strand, in the County of Middlesex, Patent Agent, for an invention for—"Improvements in building materials."—*A communication from E. A. Heurteau, of Checy, France.* *Provisional protection only.*

GEDGE.
17th June 1856.

1423. JOHN GEDGE, of No. 4, Wellington Street South, Strand, in the County of Middlesex, Patent Agent, for an invention for—"An improved pump reservoir and apparatus for measuring liquids."—*A communication from A. J. Gendry, of Dinant, Belgium.* *Provisional protection only.*

DAVIS.
17th June 1856.

1424. JOSEPH DAVIS, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"A new or improved method of manufacturing the small coke commonly called breezes, which said method of manufacture economises heat and effects suppression or partial suppression of smoke." *Letters Patent sealed.*

HOLLAND.
17th June 1856.

1425. HENRY HOLLAND, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"Improvements in the manufacture of umbrellas and parasols." *Letters Patent sealed.*

SADLER.
GREEN.
DAVIS.
17th June 1856.

1426. JOHN SADLER, of Birmingham, in the County of Warwick, Manufacturer, and JOSIAH GREEN, of Birmingham aforesaid, Manufacturer, and THOMAS DAVIS, of Birmingham aforesaid, Manufacturer, for an invention for—"Improvements in the manufacture of hinges." *Letters Patent sealed.*

BAYLIS.
17th June 1856.

1427. ARTHUR GEORGE BAYLIS, of Redditch, in the County of Worcester, Manufacturer, for an invention for—"An improvement or improvements in needles." *Letters Patent sealed.*

EIVES.
17th June 1856.

1428. JAMES EIVES, of 17, Cornhill, London, for an invention for—"An improved dynamometer."—*A communication.* *Letters Patent sealed.*

JOHNSON.
17th June 1856.

1429. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in the treatment of sugar-canes and in the apparatus employed therein."—*A communication from Titus Lespès, of the Island of Martinique, Distiller.* *Provisional protection only.*

BAKEWELL.
17th June 1856.

1430. FREDERICK COLLIER BAKEWELL, of No. 6, Haverstock Terrace, Hampstead, in the County of Middlesex, for an invention for—"Improvements in percussion bomb-shells."—*A communication from John Leppincott, of North America.* *Letters Patent sealed.*

BAYNTON.
17th June 1856.

1431. WILLIAM BAYNTON, of High Street, Bilston, in the County of Stafford, for an invention for—"Improvements in rolling rails for railways." *Provisional protection only.*

DEPAI.
17th June 1856.

1432. ALEXANDRE DEPAI, of 53, Rue de Bercy, Paris, for an invention for—"Improvements in breaks for railways." *Provisional protection only.*

NICKELS.
HOBSON.
17th June 1856.

1433. CHRISTOPHER NICKELS, of the Albany Road, in the County of Surrey, and JAMES HOBSON, of Leicester, for an invention for—"An improvement in weaving when jacquard or other ornamenting apparatus is employed." *Provisional protection only.*

DE BERENGER.
18th June 1856.

1434. RAYMOND LEOPOLD DE BERENGER, of Enfield, in the County of Middlesex, Farmer, for an invention for—"Improvements in nose bags." *Letters Patent sealed.*

BURTON.
18th June 1856.

1435. THOMAS BURTON, of Padiham, near Burnley, in the County of Lancaster, for an invention for—"Improvements in machinery or apparatus for sizing and dressing warps, yarns, or threads." *Letters Patent sealed.*

TUCKER. 18th June 1856.

1436. WALTER HENRY TUCKER, of Fleet Street, London, for an invention for—"Improvements in locks and latches." *Letters Patent sealed.*

MUIR. M'ILWHAM. 18th June 1856.

1437. MATTHEW ANDREW MUIR, of Glasgow, in the County of Lanark, North Britain, Machinist, and JAMES M'ILWHAM, of the same place, Machinist, for an invention for—"Improvements in looms for weaving." *Letters Patent sealed.*

CLIFFORD. 18th June 1856.

1438. CHARLES CLIFFORD, of the Temple, for an invention for—"Improvements in boat lashings, and in blocks and apparatus used for raising and lowering boats and other articles." *Letters Patent sealed.*

GREEN. 18th June 1856.

1439. CHARLES EDMOND GREEN, of 13, Blandford Street, Portman Square, in the County of Middlesex, for an invention for—"Improvements in tents, huts, and camp hospitals."—*Complete specification.* *Letters Patent sealed.*

SHARPLEY. 18th June 1856.

1440. CALEB PERRY SHARPLEY, of Berry's Cottage, Chapel Street, Stockwell, Surrey, for an invention for—"Improvements in paddle-wheels for propelling vessels." *Letters Patent sealed.*

TILLETT. 19th June 1856.

1441. GEORGE TILLETT, of Clapham, in the County of Surrey, Bedstead Manufacturer, for an invention for—"Improvements in bedsteads." *Letters Patent sealed.*

HUNT. 19th June 1856.

1442. WILLIAM HUNT, of Tonge, near Middleton, in the County of Lancaster, Silk Manufacturer, for an invention for—"Certain improvements in machinery or apparatus for polishing and finishing yarns or threads." *Letters Patent sealed.*

SPILSBURY. 19th June 1856.

1443. FRANCIS GYBBON SPILSBURY, of Chaudfontaine, in the Kingdom of Belgium, and of 56, Stones End, Borough of Southwark, County of Surrey, Gentleman, for an invention for—"Making soda and alum." *Letters Patent sealed.*

MOLESWORTH. 19th June 1856.

1444. GUILFORD LINDSAY MOLESWORTH, of 13, Beaufort Buildings, Strand, London, in the County of Middlesex, Engineer, for an invention for—"An improved pendent child's cot." *Letters Patent sealed.*

SCHWARTZ. 19th June 1856.

1445. THEODORE SCHWARTZ, of New York, United States, but now of 67, Gracechurch Street, London, for an invention for—"An improved brick." *Letters Patent sealed.*

PYE. 19th June 1856.

1446. GEORGE PYE, of Ipswich, in the County of Suffolk, Flax Manufacturer, for an invention for—"An improvement in preparing silk." *Letters Patent sealed.*

MILLS. 19th June 1856.

1447. WILLIAM MILLS, of 2, Lower Craven Place, Kentish Town, for an invention for—"An improvement in pianofortes." *Provisional protection only.*

PARSONS. 19th June 1856.

1448. WILLIAM PARSONS, of 18, Pratt Street, Old Lambeth, Manufacturing Engineer, for an invention for—"Improvements in washing and bleaching woven fabrics." *Letters Patent sealed.*

DAMAZIO. 19th June 1856.

1449. JACINTO DIAS DAMAZIO, of Lisbon, in the Kingdom of Portugal, Merchant, for an invention for—"A new process of making illuminating and heating gas by a double distillation without retort."—*A communication.* *Letters Patent sealed.*

RADLEY. 20th June 1856.

1450. WILLIAM RADLEY, of Hill Street, Peckham, in the County of Surrey, Surgeon, for an invention for—"Improvements in machinery, apparatus, materials, and processes, for preparing and treating auriferous, argentiferous, and cupreous rocks, minerals, and alluviums, parts whereof are applicable to other purposes."—*Complete specification.* *Letters Patent sealed.*

MONCKTON. 20th June 1856.

1451. EDWARD HENRY CRADOCK MONCKTON, of the Bengal Civil Service, and of 77, Chancery Lane, in the County of Middlesex, for an invention for—"Improvements in pianofortes." *Provisional protection only.*

PITMAN. 20th June 1856.

1452. JOHN TALBOT PITMAN, of the American and European Patent Offices, 67, Gracechurch Street, in the City of London, for an invention for—"A new method of using the electric current or currents for telegraphic and other purposes."—*A communication.* *Letters Patent sealed.*

BULLOUGH. 20th June 1856.

1453. JAMES BULLOUGH, of Accrington, in the County of Lancaster, Manufacturer, for an invention for—"Improvements in looms." *Letters Patent sealed.*

SANDS.
20th June 1856.

1454. ALEXANDER SANDS, of the City of Manchester, Iron Founder, for an invention for—"Improvements in apparatus for signalling and for saving life and property at sea, part of which is applicable to signalling on land." *Provisional protection only.*

HAGUE.
20th June 1856.

1455. JONATHAN HAGUE, of Ashton-under-Lyne, in the County of Lancaster, Overlooker, for an invention for—"Improvements in machinery or apparatus for manufacturing bands or cords for driving machinery and other purposes." *Letters Patent sealed.*

CROFTON.
20th June 1856.

1456. MICHAEL THOMAS CROFTON, of Leeds, in the County of York, for an invention for—"An apparatus for inking stamps used by bankers and others." *Letters Patent sealed.*

PIGOTT.
20th June 1856.

1457. HENRY PIGOTT, of Glasgow, in the County of Lanark, North Britain, Hat Manufacturer, for an invention for—"Improvements in hats and other coverings for the head." *Provisional protection only.*

JONES.
HARRIS.
20th June 1856.

1458. STOPFORD THOMAS JONES, of Royal Circus Street, Greenwich, in the County of Kent, and JOSIAH HARRIS, of Dolgelly, in Merionethshire, North Wales, for an invention for—"An amalgamating machine to extract gold and silver and to separate iron from crushed mineral ores in water." *Provisional protection only.*

HOWELL.
21st June 1856.

1459. JOSEPH BENNETT HOWELL, of Sheffield, in the County of York, for an invention for—"Improvements in the manufacture of cast steel tyres." *Provisional protection only.*

VENTRÉ.
21st June 1856.

1460. EMILE VENTRÉ, of the City of Paris, in the Empire of France, for an invention for—"An improved carton or box for keeping papers or other articles." *Provisional protection only.*

DAVIES.
21st June 1856.

1461. GEORGE DAVIES, of the Office for Patents, 1, Serle Street, Lincoln's Inn, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in apparatus for measuring and indicating the leakage of vessels."—*A communication from Reuben Shaler, of Madison, Connecticut, in the United States of America.* *Letters Patent sealed.*

HANDCOCK.
21st June 1856.

1462. ELIAS ROBISON HANDCOCK, of 16, North Frederick Street, Dublin, and Lower Belgrave Street, Westminster, Esquire, for an invention for—"Certain improvements in mechanism connected with engines to be worked by steam or other motive-power." *Letters Patent sealed.*

GILBEE.
21st June 1856.

1463. WILLIAM ARMAND GILBEE, of No. 4, South Street, Finsbury, London, and 39, Rue de l'Echiquier, Paris, in the Empire of France, Gentleman, for an invention for—"Improvements in locomotion on railroads, part of which improvements are also applicable to ordinary roads."—*A communication.* *Provisional protection only.*

MINNE.
COLSON.
21st June 1856.

1464. CHARLES MINNE, and AMAND COLSON, of Brussels, Civil Engineers, for an invention for—"Improvements in making bread." *Letters Patent sealed.*

MILLER.
23rd June 1856.

1465. WILLIAM VALENTINE MILLER, of Portsmouth, in the County of Southampton, Paymaster in Her Majesty's Navy, for an invention for—"Improvements in propelling vessels." *Letters Patent sealed.*

LACROIX.
23rd June 1856.

1466. JEAN CHARLES LEFEVRE LACROIX, Merchant, of Huitrégiville (Marne), in the Empire of France, for an invention for—"Filthing and shaving the merino plain satin and muslin of wool." *Letters Patent sealed.*

JOHNSON.
BLACKWELL.
23rd June 1856.

1467. JAMES JOHNSON, and WILLIAM BLACKWELL, both of Ashton-under-Lyne, in the County of Lancaster, Overlookers, for an invention for—"Certain improvements in self-acting mules for spinning." *Provisional protection only.*

GURNEY.
23rd June 1856.

1468. GOLDSWORTHY GURNEY, of Bude, Cornwall, for an invention for—"Certain improvements in warming and moistening air." *Letters Patent sealed.*

ROGER.
23rd June 1856.

1469. ROBERT ROGER, of Stockton, in the County of Durham, Engineer and Iron-founder, for an invention for—"Improvements in machinery employed in the cultivation of land." *Provisional protection only.*

LONGRIDGE. 23rd June 1856.

1470. JAMES ATKINSON LONGRIDGE, of 17, Fludyer Street, Westminster, in the County of Middlesex, for an invention for—"Improvements in obtaining and applying motive-power for the conveyance of minerals, pumping, and other purposes in mines in which motive-power is required." *Letters Patent sealed.*

RILEY. 23rd June 1856.

1471. GEORGE RILEY, of No. 1, The Grove, in the Parish of St. Mary, Lambeth, in the County of Surrey, for an invention for—"An improved refrigerator for cooling brewers' and distillers' worts." *Letters Patent sealed.*

MILLER. 23rd June 1856.

1472. JOHN MILLER, of Drogheda, Ireland, for an invention for—"Improvements in furnaces for more effectually consuming the smoke and economizing the fuel employed therein." *Letters Patent sealed.*

VIVIAN. HERRMANN. MORGAN. 23rd June 1856.

1473. HENRY HUSSEY VIVIAN, BERNHARDT GUSTAV HERRMANN, and WILLIAM MORGAN, all of the Hafod Works, Swansea, in the County of Glamorgan, for an invention for—"Improvements in the manufacture of copper, and in obtaining gold and silver from the ores employed in such manufacture." *Letters Patent sealed.*

DYSON. 23rd June 1856.

1474. GEORGE DYSON, of Tudhoe Iron Works, near Ferry Hill, in the County of Durham, for an invention for—"Improvements in the manufacture of iron." *Letters Patent sealed; no specification filed.*

ATKIN. MILLER. 23rd June 1856.

1475. ISAAC ATKIN, and MARMADUKE MILLER, of the Town and County of the Town of Nottingham, Gentlemen, for an invention for—"Improvements in machinery for sewing lace and other fabrics." *Letters Patent sealed.*

MILLS. 23rd June 1856.

1476. CHARLES MILLS, of 8, High Street, Camden Town, in the County of Middlesex, for an invention for—"An improvement in the hammer rails of pianofortes." *Letters Patent sealed.*

HARDON. HENRY. 24th June 1856.

1477. EDWIN HARDON, of Stockport, in the County of Chester, Manufacturer, and JOSEPH HENRY, of the same place, Mechanic, for an invention for—"Improvements in looms for weaving, and in machinery for communicating motion to looms and other machines." *Letters Patent sealed.*

TAYLOR. 24th June 1856.

1478. JOHN TAYLOR, of Hackney Road, in the County of Middlesex, for an invention for—"An improved vessel for containing chemicals for the generation of disinfecting gases." *Letters Patent sealed.*

SAXBY. 24th June 1856.

1479. JOHN SAXBY, of Brighton, Sussex, for an invention for—"A mode of working simultaneously the points and signals of railways at junctions, to prevent accidents." *Letters Patent sealed.*

DAVIES. 24th June 1856.

1480. DAVID DAVIES, of Wigmore Street, Cavendish Square, in the County of Middlesex, Coach Maker, for an invention for—"Improvements in wheel tyres." *Provisional protection only.*

HARRISON. GELDERD. 24th June 1856.

1481. JOSEPH HARRISON, of Blackburn, Machinist, and CHRISTOPHER GELDERD, of Low Moor, Clitheroe, Manager, both in the County of Lancaster, for an invention for—"Improvements in machines for warping and sizing or otherwise preparing yarns or threads for weaving."—*Letters Patent sealed; specification filed* 14*th January* 1857, *by order.*

HARRISON. GELDERD. 24th June 1856.

1482. JOSEPH HARRISON, of Blackburn, Machinist, and CHRISTOPHER GELDERD, of Low Moor, Clitheroe, Manager, both in the County of Lancaster, for an invention for—"Improvements in looms for weaving." *Provisional protection only.*

JOHNSON. 24th June 1856.

1483. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in railway breaks."—*A communication from Jean Baptiste Marie Albert Cochot, of Paris, in the Empire of France.* *Letters Patent sealed.*

BOWER. 24th June 1856.

1484. LEONARD BOWER, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"An improvement or improvements in the manufacture of bolts, rivets, spikes, screw blanks, nuts for screws, and washers."—*Letters Patent sealed.*

ROBSON. 24th June 1856.

1485. SAMUEL SINCLAIR ROBSON, of 45, West Street, Gateshead, in the County of Durham, Agent, for an invention for—"Improvements in railway and other carriage breaks." *Provisional protection only.*

POPE.
24th June 1856.

1486. ABRAHAM POPE, of Edgware Road, in the County of Middlesex, Engineer, for an invention for—"Improvements in the manufacture of steel."
Provisional protection only.

LAFOND.
24th June 1856.

1487. JULES ETIENNE LAFOND, of Belleville, near Paris, in France, Engineer, and 4, South Street, Finsbury, London, for an invention for—"Improvements in lighting."
Letters Patent sealed.

NEWTON.
24th June 1856.

1488. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"An improved construction of life boat."—*A communication.* *Provisional protection only.*

GARDISSAL.
25th June 1856.

1489. CHARLES DURAND GARDISSAL, of 10, Bedford Street, Strand, London, and 29, Boulevart St. Martin, Paris, Patent Agent, for an invention for—"Improvements in engraving glass and crystals."—*A communication.* *Letters Patent sealed.*

BUFF.
VERSMANN.
25th June 1856.

1490. HENRICH LUDWIG BUFF, of 9, Fitzroy Square, in the County of Middlesex, and FREDERIC VERSMANN, of 3, Forest Place, Kingsland Road, in the same County, Chemists, for an invention for—"An improvement in purifying and softening water."
Letters Patent sealed.

ALLEN.
25th June 1856.

1491. MICHAEL ALLEN, of 39, Cavendish Grove, Wandsworth Road, in the County of Surrey, Engineer, for an invention for—"An improvement in arranging and working the slide valves of steam-engines." *Provisional protection only.*

KEILLER.
25th June 1856.

1492. ALEXANDER KEILLER, of Dundee, in the County of Forfar, North Britain, Confectioner, for an invention for—"Improvements in the manufacture of articles of confectionary." *Letters Patent sealed.*

BATES.
25th June 1856.

1493. GEORGE ARMSTRONG BATES, of Wigan, in the County of Lancaster, Mineral Surveyor, for an invention for—"Improvements in apparatus for the prevention of accidents in ascending and descending shafts of mines."
Provisional protection only.

ROHEAD.
25th June 1856.

1494. JOHN ROHEAD, of Glasgow, in the County of Lanark, North Britain, Hat Manufacturer, for an invention for—"Improvements in hats and other coverings for the head." *Provisional protection only.*

CHANDLER.
OLIVER.
25th June 1856.

1495. ROBERT WILSON CHANDLER, of Bow, in the County of Middlesex, Engineer, and THOMAS OLIVER, of Hatfield, in the County of Hertford, Farmer, for an invention for—"Improvements in engines employed for agricultural purposes."
Letters Patent sealed.

SCHELLER.
25th June 1856.

1496. THEOFILO SCHELLER, Painter, of Waedenschweyl, Town in the Confederation of the Swiss, for an invention for—"Certain improvements in obtaining and applying motive-power." *Provisional protection only.*

MARESCHAL.
25th June 1856.

1497. JULES HENRI ETIENNE MARESCHAL, Engineer, of Paris, France, for an invention for—"Improvements in hydraulic presses." *Provisional protection only.*

PLATT.
WHITEHEAD.
25th June 1856.

1498. JAMES PLATT, of Oldham, in the County of Lancaster, Machine Maker, and JOHN WHITEHEAD, of the same place, Manager, for an invention for—"Improvements in machinery or apparatus for making bricks." *Letters Patent sealed.*

KENYON.
KENYON.
25th June 1856.

1499. JAMES KENYON, of Bury, in the County of Lancaster, and RICHARD KENYON, of the same place, Manufacturers, for an invention for—"An improved fabric to be used in printing and other similar purposes, and a method of joining or connecting the ends of the same." *Letters Patent sealed.*

CORNIDES.
25th June 1856.

1500. LOUIS CORNIDES, of No. 4, Trafalgar Square (Office for Patents), Charing Cross, in the County of Middlesex, for an invention for—"Improvements in ornamenting metal, wood, leather, textile fabrics, and other substances."
Letters Patent sealed.

DORRICH.
26th June 1856.

1501. GUSTAVE DORRICH, of Stuttgart, in the Kingdom of Würtemberg, and of 77, Chancery Lane, in the County of Middlesex, for an invention for—"Improvements in gas burners."—*A communication.* *Letters Patent sealed.*

GRATRIX.
KNIGHT.
26th June 1856.

1502. JOHN GRATRIX, of Preston, in the County of Lancaster, and ALFRED KNIGHT, of Birmingham, in the County of Warwick, Machinists, for an invention for—"Improvements in apparatus for registering a permanent record of the speed of steam or other engines, which apparatus is also applicable to watchmen's registers and other similar purposes." *Letters Patent sealed.*

WALLER. 26th June 1856.

1503. HENRY WALLER, of Lickhill, near Calne, in the County of Wilts, for an invention for—"Improvements applicable to vessels used in the manufacture of cheese." *Letters Patent sealed; no specification filed.*

WHITE. 26th June 1856.

1504. DAVID WHITE, of No. 3, Winchester Place, in the Parish of St. James', Clerkenwell, in the County of Middlesex, Surveyor, for an invention for—"Improved apparatus for the more perfect combustion of gases, for preventing their escape, and the unnecessary radiation of heat therefrom." *Letters Patent sealed.*

MACDONALD. 26th June 1856.

1505. DAVID MACDONALD, of Glasgow, in the County of Lanark, North Britain, Manufacturer, for an invention for—"Improvements in printing textile fabrics and other surfaces." *Letters Patent sealed.*

PORTUS. 26th June 1856.

1506. JOHN PORTUS, of Morpeth, in the Colony of New South Wales, Engineer, for an invention for—"Improvements in wheeled carriages." *Letters Patent sealed.*

AIKMAN. 26th June 1856.

1507. JAMES AIKMAN, of Paisley, in the County of Renfrew, North Britain, Scourer and Shawl Finisher, for an invention for—"Improvements in the treatment, cleansing, or finishing of textile fabrics." *Letters Patent sealed.*

MALEZIEUX. 26th June 1856.

1508. FRANÇOIS JOSEPH LUCIEN MALEZIEUX, Merchant, of Paris, in the French Empire, for an invention for—"Certain improvements in the preparation of peat and in the manufacture of the same into fuel, charcoal, and gas."—*A communication from Mr. Gautier.* *Provisional protection only.*

FOOT. 26th June 1856.

1509. JOSEPH JAMES FOOT, of Spital Square, in the County of Middlesex, for an invention for—"Improvements in weaving narrow fabrics."—*A communication.* *Letters Patent sealed.*

SCARIANO. DE VILLAMIL. 26th June 1856.

1510. BASILIO SCARIANO, and RAPHAËL PAUL DE VILLAMIL, both of No. 10, Rue Lepelletier, in the City of Paris, Gentlemen, for an invention for—"Improvements in apparatus for measuring and setting out the forms of garments." *Letters Patent sealed.*

HUDSON. CATLOW. 26th June 1856.

1511. WILLIAM HUDSON, of Burnley, in the County of Lancaster, Machinist, and CHRISTOPHER CATLOW, of Clitheroe, in the same County, Overlooker, for an invention for—"Certain improvements in looms for weaving." *Letters Patent sealed.*

FORD. 27th June 1856.

1512. ALFRED FORD, of No. 35, Wellington Square, King's Road, Chelsea, for an invention for—"Preparing and dissolving in naphtha or oil of turpentine vulcanized india-rubber for the purpose of waterproofing, and for all or any of the other purposes for which the same not so prepared and dissolved is now applicable, and especially for the coating of iron ships' bottoms."—*Complete specification.* *Protection for six months only.*

SHANKS. 27th June 1856.

1513. ANDREW SHANKS, Engineer, 6, Robert Street, Adelphi, Westminster, for an invention for—"Certain improvements in machines for drilling, boring, and cutting metals." *Letters Patent sealed.*

PRELLER. 27th June 1856.

1514. CHARLES AUGUSTUS PRELLER, of Lant Street, in the Borough of Southwark, Leather Manufacturer, for an invention for—"Improvements in unhairing and preparing skins, and in tanning."—*Partly a communication.* *Letters Patent sealed.*

JOHNSON. 27th June 1856.

1515. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, for an invention for—"Improvements in the production of carbonate of barytes."—*A communication from Etienne Philibert Theodore Tassy de Montluc, and Louis Jules Gauthier, both of Paris, in the Empire of France.* *Letters Patent sealed.*

BETHUNE. 27th June 1856.

1516. DONALD BETHUNE, of Cambridge Terrace, Hyde Park, in the County of Middlesex, Esquire, for an invention for—"Certain improvements in apparatus for separating the more fluid particles from the more solid of various bodies." *Provisional protection only.*

BURNAND. 27th June 1856.

1517. EDWARD BURNAND, of Moudon, Canton de Vaud, Switzerland, for an invention for—"An improvement in the manufacture of fire-arms."—*Letters Patent sealed.*

ORMEROD. 28th June 1856.

1518. GEORGE HENRY ORMEROD, of Newchurch, in the Parish of Whalley, in the County of Lancaster, Manufacturer, for an invention for—"Improvements in machinery for brushing and cleaning cotton fabrics." *Letters Patent sealed.*

BROWN. 28th June 1856.

1519. EDWARD BROWN, of Henry Street Works, Sheffield, in the County of York, Manufacturer, for an invention for—"Improvements in the casting of sailors' and other pocket knife handles and scales." *Provisional protection only.*

WHITE.
28th June 1856.

1520. GEORGE WHITE, of 5, Laurence Pountney Lane, Cannon Street, City, for an invention for—"An improved poultice."—*A communication from Dr. Antelme, of France.* *Provisional protection only.*

VINCENZI.
28th June 1856.

1521. EUGENIO VINCENZI, of Turin (Piedmont), Engineer, for an invention for—"Improvements in jacquard machines." *Provisional protection only.*

SLOPER.
28th June 1856.

1522. BEVAN GEORGE SLOPER, of Kentish Town, in the County of Middlesex, Gentleman, for an invention for—"Improvements in freezing, refrigerating, and cooling, and in the machinery employed therein." *Letters Patent sealed.*

REID.
28th June 1856.

1523. ROBERT REID, of Glasgow, in the County of Lanark, North Britain, Clerk, for an invention for—"Improvements in the treatment or preparation of oils to be used for lubricating." *Provisional protection only.*

TRAVIS.
CASARTELLI.
28th June 1856.

1524. EDWIN TRAVIS, of Oldham, in the County of Lancaster, Engineer, and JOSEPH LOUIS CASARTELLI, of Manchester, in the County of Lancaster, Optician, for an invention for—"Certain improvements in machinery or apparatus for testing or ascertaining the lubricating quality of oils or other unctuous substances." *Provisional protection only.*

M'ADAM.
28th June 1856.

1525. WILLIAM M'ADAM, of Glasgow, in the County of Lanark, Manufacturer, for an invention for—"Improvements in the manufacture of articles of clay and such like plastic substances."—*Partly a communication.* *Letters Patent sealed.*

MESSAGER-ABIT.
28th June 1856.

1526. CHARLES ARMAND MESSAGER-ABIT, of 39, Rue de l'Echiquier, Paris, in the Empire of France, and 4, South Street, Finsbury, London, for an invention for—"Certain improvements in the treatment of fibrous substances."—*Letters Patent sealed.*

BELLFORD.
28th June 1856.

1527. AUGUSTE EDOUARD LORADOUX BELLFORD, of 10, Bedford Street, Strand, London, Patent Agent, for an invention for—"Improvements in drying, burning, and cooling bricks, tiles, and other ceramic substances."—*A communication.* *Provisional protection only.*

ORRELL.
CLEMINSON.
BARRACLOUGH.
28th June 1856.

1528. RICHARD ORRELL, of Low Moor, in the Township of North Bierley, in the Parish of Bradford, in the County of York, Engine Tenter, JOHN CLEMINSON, of Low Moor aforesaid, Engineer, and WILLIAM BARRACLOUGH, of Low Moor aforesaid, Engineer, for an invention for—"Improvements in steam-boilers for preventing explosion thereof." *Provisional protection only.*

HENLEY.
28th June 1856.

1529. THOMAS FREDERICK HENLEY, of Bromley, in the County of Middlesex, for an invention for—"An improved process for obtaining arrack or spirit from rice or other grain." *Letters Patent sealed.*

GOODE.
30th June 1856.

1530. SAMUEL JABEZ GOODE, of Aston, near Birmingham, in the County of Warwick, Machinist, for an invention for—"Improvements in gas stoves, and the application of the same to the ventilation of buildings." *Letters Patent sealed.*

ROGERS.
MACKWORTH.
30th June 1856.

1531. EBENEZER ROGERS, of Abercarn, in the County of Monmouth, and HERBERT MACKWORTH, of Clifton, in the County of Gloucester, for an invention for—"Improvements in coking and in apparatus for that purpose."—*Partly a communication.* *Letters Patent sealed.*

NEWTON.
30th June 1856.

1532. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"An improved safety pocket for coats and other garments."—*A communication.* *Provisional protection only.*

BROWN.
BARTLETT.
30th June 1856.

1533. HENRY BROWN, residing at No. 23, Nelson Square, Nelson Street, Bermondsey, and JOB BARTLETT, of No. 23, Little Guildford Street, Southwark, for an invention for—"The construction of an iron easy arm chair bedstead." *Letters Patent sealed; no specification filed.*

MORIARTY.
30th June 1856.

1534. CORNELIUS MORIARTY, of 22, Nelson Street, Greenwich, in the County of Kent, for an invention for—"Improvements in the construction of tube brushes used in cleaning the tubes of marine, locomotive, and all kinds of multitubular boilers." *Letters Patent sealed.*

LUDFORD.
1st July 1856.

1535. WILLIAM HENRY LUDFORD, of Tredworth, in the County of Gloucestershire, Brush Maker, for an invention for—"Improvements in the manufacture of brooms and brushes." *Provisional protection only.*

GOODHART. 1st July 1856.

1536. CHARLES WOIDE GOODHART, of Woodlands, in the County of Middlesex, Gentleman, for an invention for—"Improvements in bars or gratings for the security of buildings and other property." *Letters Patent sealed.*

SANDERS. 1st July 1856.

1537. FREDERICK GEORGE SANDERS, of Poole, in the County of Dorset, for an invention for—"Improvements in the manufacture of ornamental floor and other tiles, bricks, slabs, and other similar articles." *Letters Patent sealed.*

WILD. 1st July 1856.

1538. ALFRED WILD, of Windsor, in the County of Berks, Tanner and Currier, for an invention for—"Improvements in the manufacture of boots and shoes." *Letters Patent sealed.*

HADDAN. 1st July 1856.

1539. JOHN COOPE HADDAN, of Cannon Row, in the City of Westminster, Civil Engineer, for an invention for—"Improvements in the manufacture of projectiles, and in firing or discharging them from cannon." *Letters Patent sealed.*

LONGRIDGE. 1st July 1856.

1540. JAMES ATKINSON LONGRIDGE, of 17, Fludyer Street, Westminster, in the County of Middlesex, for an invention for—"Improvements in the application of mechanical power to ploughing and other field operations of agriculture." *Letters Patent sealed.*

HOPE. FAIRBAIRN. 1st July 1856.

1541. DAVID GRAHAM HOPE, of Manchester, in the County of Lancaster, Engineer, and WILLIAM ANDREW FAIRBAIRN, of the same place, Engineer, for an invention for—"Certain improvements in steam-engines." *Provisional protection only.*

DAVIES. BROADBENT. 1st July 1856.

1542. JOHN LACEY DAVIES, junior, of the City of Manchester, in the County of Lancaster, Engineer, and JOHN BROADBENT, of the same place, Manufacturer, for an invention for—"Certain improvements in umbrellas and parasols." *Letters Patent sealed.*

HARVEY. HARVEY. 1st July 1856.

1543. GEORGE HARVEY, and ALEXANDER HARVEY, junior, of Glasgow, in the County of Lanark, North Britain, Engineers, for an invention for—"Improvements in machinery or apparatus for boring and drilling." *Letters Patent sealed.*

NEWTON. 1st July 1856.

1544. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"An improved construction of door lock."—*A communication. Provisional protection only.*

BOUSFIELD. 1st July 1856.

1545. GEORGE TOMLINSON BOUSFIELD, of Sussex Place, Loughborough Road, Brixton, in the County of Surrey, for an invention for—"Improvements in propelling and steering vessels when the force of water is used."—*A communication.* *Letters Patent sealed.*

DERING. 1st July 1856.

1546. GEORGE EDWARD DERING, of Lockleys, in the County of Herts, for an invention for—"Improvements in galvanic batteries." *Letters Patent sealed.*

HAY. HAY. 1st July 1856.

1547. JOHN HAY, of Hay's Mill, Leith, and JAMES HAY, of Edington Mills, Berwickshire, for an invention for—"Improvements in the production of pearl barley." *Letters Patent sealed; no specification filed.*

LOAM. 1st July 1856.

1548. MATTHEW HILL LOAM, of Nottingham, Engineer, for an invention for—"Improvements in meters for measuring water and other fluids." *Provisional protection only.*

JOHNSON. 2nd July 1856.

1549. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in the manufacture of cast steel."—*A communication from James Jackson and Son, of St. Seurin, in the Empire of France, Steel Manufacturers.* *Provisional protection only.*

VAN HENGEL. 2nd July 1856.

1550. JOSEPH HENRY VAN HENGEL, of No. 531[3], Chaussée de Malines, Anvers, in the Kingdom of Belgium, and of No. 4, South Street, Finsbury, London, for an invention for—"Improvements in apparatus for raising and lowering bodies in mines." *Letters Patent sealed.*

HEYNS. 2nd July 1856.

1551. PATRICK HEYNS, of Poplar, County of Middlesex, Cooper, for an invention for—"Improvements in axles, boxes, and wheels for carriages." *Provisional protection only.*

FLEMING. 2nd July 1856.

1552. JAMES FLEMING, junior, of Newlandsfields, in the County of Renfrew, North Britain, Bleacher, for an invention for—"Improvements in bleaching, washing, cleansing, and preparing textile fabrics and materials." *Letters Patent sealed.*

SPITTLE. 2nd July 1856.	1553. WILLIAM FREDERICK SPITTLE, of Birmingham, in the County of Warwick, Machinist, for an invention for—"An improvement or improvements in braiding or plaiting machinery." *Letters Patent sealed.*
GREEN. 2nd July 1856.	1554. EDWIN GREEN, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"Improvements in the manufacture of buttons." *Letters Patent sealed.*
HUMBER. 2nd July 1856.	1555. WILLIAM HUMBER, of No. 9, Dowgate Hill, in the City of London, Engineer, for an invention for—"Improvements in the permanent way of railways." *Provisional protection only.*
NOURISSON. 2nd July 1856.	1556. ALFRED NOURISSON, of 10, Rue des Petites Ecuries, Paris, for an invention for—"Improvements in drying and burning bricks and other articles of clay." *Provisional protection only.*
MARAIS. 2nd July 1856.	1557. THOMAS EMMANUEL MARAIS, of Ferrieres la Verrerie (Orne), France, for an invention for—"Improvements in railway signals." *Letters Patent sealed.*
WILLIAMSON. STEVENSON. 2nd July 1856.	1558. JOHN WILLIAMSON, and JAMES COCHRAN STEVENSON, of South Shields, Alkali Manufacturers, for an invention for—"Improvements in evaporating saline solutions." *Letters Patent sealed.*
HUBBARD. 2nd July 1856.	1559. WILLIAM HENRY HUBBARD, of 18, Hemus Terrace, King's Road, Chelsea, in the County of Middlesex, for an invention for—"Improvements in the manufacture of articles for lighting domestic and other fires." *Letters Patent sealed.*
BURNETT. 2nd July 1856.	1560. WILLIAM HICKLING BURNETT, of Margaret Street, in the County of Middlesex, Gentleman, for an invention for—"Improvements in electric telegraphs and in apparatuses employed therein." *Letters Patent sealed.*
NEWTON. 2nd July 1856.	1561. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improvements in air engines."—*A communication.* *Letters Patent sealed.*
NEWTON. 2nd July 1856.	1562. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Certain improvements in machinery for manufacturing rope or cordage."—*A communication.* *Letters Patent sealed.*
PENDLEBURY. 3rd July 1856.	1563. JOHN PENDLEBURY, of Crumpsall, in the County of Lancaster, Bleacher, for an invention for—"Improvements in machinery or apparatus for bleaching or cleansing textile fabrics or materials." *Letters Patent sealed.*
EWING. 3rd July 1856.	1564. JOSEPH EWING, of Cirencester, in the County of Gloucester, for an invention for—"A new or improved portable receptacle for urine and other human secretions." *Provisional protection only.*
PEIRCE. 3rd July 1856.	1565. JOHN CALEB HALL PEIRCE, of Upper North Place, Gray's Inn Road, in the County of Middlesex, Commercial Traveller, for an invention for—"Improvements in glass chandeliers, lustres, and other such means used in lighting." *Provisional protection only.*
CURWOOD. 3rd July 1856.	1566. DAVID CURWOOD, of Grocer's Hall Court, in the City of London, for an invention for—"Improvements in horse rakes, which improved rake may also be rendered applicable for scarifying land." *Provisional protection only.*
BROWN. 3rd July 1856.	1567. JOSEPH BROWN, of 71, Leadenhall Street, in the City of London, Cabinet Manufacturer, for an invention for—"Certain improvements in hats and caps." *Letters Patent sealed.*
GREAVES. 4th July 1856.	1568. HILTON GREAVES, of Oldham, in the County of Lancaster, Manufacturer, for an invention for—"Improvements in looms for weaving." *Letters Patent sealed.*
BRADFORD. 4th July 1856.	1569. EDWIN GREENSLADE BRADFORD, of Torquay, Devonshire, for an invention for—"An improved rudder." *Letters Patent sealed.*
CHANDLER. 4th July 1856.	1570. THOMAS CHANDLER, of 58, Paradise Street, Rotherhithe, for an invention for—"A lever cask stand." *Letters Patent sealed.*
KEY. 4th July 1856.	1571. THOMAS KEY, of 122, Brick Lane, Bethnal Green, for an invention for—"An improved knife-cleaning machine."—*Complete specification.* *Protection for six months only.*

HOWARD. 4th July 1856.

1572. ROBERT LUKE HOWARD, of 85, Whitecross Street, in the County of Middlesex, Engineer, for an invention for—"Improvements in valves for regulating the flow of fluids." *Letters Patent sealed.*

JOHNSON. 4th July 1856.

1573. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in machinery or apparatus for cleaning and carding cotton and other fibrous substances."—*A communication from Georges Alphonse Risler, of Cernay, in the Empire of France, Engineer.* *Letters Patent sealed.*

CORNIDES. 4th July 1856.

1574. LOUIS CORNIDES, of No. 4, Trafalgar Square (Office for Patents), Charing Cross, in the County of Middlesex, for an invention for—"Improvements in cementing and uniting together plain or ornamented surfaces of glass, or in uniting surfaces of glass to surfaces of metal or other material." *Letters Patent sealed.*

TRAVIS. CASARTELLI. 5th July 1856.

1575. EDWIN TRAVIS, of Oldham, in the County of Lancaster, Engineer, and JOSEPH LOUIS CASARTELLI, of Manchester, in the County of Lancaster, Optician, for an invention for—"Certain improvements in steam-engines."—*Letters Patent sealed.*

FOSS. 5th July 1856.

1576. JENS FOSS, of the City of Manchester, Engineer, for an invention for—"Improvements in machinery for cutting and sawing." *Provisional protection only.*

ADSHEAD. 5th July 1856.

1577. JOSEPH ADSHEAD, of the City of Manchester, Gentleman, for an invention for—"A new application of a known material to be used as a substitute for plastering, painting, papering, whitewashing, and colouring." *Letters Patent sealed.*

LEWTAS. HUMPHREYS. 5th July 1856.

1578. JOSEPH LEWTAS, of the City of Manchester, Manufacturer of Venetian and other Blinds, and JOHN HUMPHREYS the younger, of the same place, Mechanic, for an invention for—"Improvements in apparatus for holding and releasing cords, chains, bands, or bars." *Letters Patent sealed.*

MANNING. 5th July 1856.

1579. JAMES ALEXANDER MANNING, of the Inner Temple, London, Esquire, for an invention for—"Improvements in the manufacture or production of manure." *Letters Patent sealed.*

DE COMBETTES. 5th July 1856.

1580. PAUL CHARLES JOSEPH LÉONCE DE COMBETTES, Civil Engineer, of Lyon, Town in the French Empire, for an invention for—"An improved steam-engine." *Provisional protection only.*

LETESTU. 5th July 1856.

1581. JEAN MARIE LETESTU, Manufacturer, of Paris, in the French Empire, for an invention for—"Certain improvements in extracting liquids and solid or pasty matters." *Provisional protection only.*

SMITH. 5th July 1856.

1582. THOMAS SMITH, of Bredfield, in the County of Suffolk, for an invention for—"Improvements in horse rakes." *Letters Patent sealed.*

BLACKSTONE. 5th July 1856.

1583. LORENZO BLACKSTONE, of Lawrence Lane, in the City of London, Merchant, for an invention for—"Improvements in the manufacture of corks and bungs." *Letters Patent sealed.*

PILLINER. 7th July 1856.

1584. FREDERIC JAMES PILLINER, of Hatfield Street, Stamford Street, Blackfriars Road, in the County of Surrey, for an invention for—"Improvements in clasps or fastenings for waist bands or other descriptions of bands or straps." *Provisional protection only.*

MILLWARD. 7th July 1856.

1585. ROBERT MILLWARD, of Patricroft, near the City of Manchester, Foreman, for an invention for—"An improved instrument which may be used as a screw key or gauge." *Letters Patent sealed.*

SHAW. 7th July 1856.

1586. ROBERT SHAW, of Portlaw, in the County of Waterford, Ireland, Cotton Spinner and Manufacturer, for an invention for—"Improvements in obtaining pressure applicable to machinery for preparing and spinning cotton and other fibrous materials, and other purposes." *Letters Patent sealed.*

CHENOT. CHENOT. 7th July 1856.

1587. ALFRED LOUIS STANISLAS CHENOT, and EUGÈNE CHARLES ADRIEN CHENOT, of Clichy-la-Garenne, near Paris (Empire of France), Chemists, for an invention for—"A method of extracting eliminating extraneous substances from steel sponges."—*Complete specification.* *Letters Patent sealed.*

CHENOT.
CHENOT.
7th July 1856.

1588. ALFRED LOUIS STANISLAS CHENOT, and EUGÈNE CHARLES ADRIEN CHENOT, of Clichy-la-Garenne, near Paris (Empire of France), Chemists, for an invention for—"Improvements in sorting ores or separating metals from each other and from certain combinations with other substances."—*Complete specification.*
Letters Patent sealed.

CHENOT.
CHENOT.
7th July 1856.

1589. ALFRED LOUIS STANISLAS CHENOT, and EUGÈNE CHARLES ADRIEN CHENOT, of Clichy-la-Garenne, near Paris (Empire of France), Chemists, for an invention for—"Improvements in machinery for compressing metallic sponges and other substances."—*Complete specification.* *Letters Patent sealed.*

CHENOT.
CHENOT.
7th July 1856.

1590. ALFRED LOUIS STANISLAS CHENOT, and EUGÈNE CHARLES ADRIEN CHENOT, of Clichy-la-Garenne, near Paris (Empire of France), Chemists, for an invention for—"Improvements in apparatus for the reduction of metallic oxydes."—*Complete specification.* *Letters Patent sealed.*

SAMPSON.
7th July 1856.

1591. GEORGE SAMPSON, of Bradford, in the County of York, Stuff Finisher and Presser, for an invention for—"Improvements in finishing fabrics."—*Letters Patent sealed.*

CAMBRIDGE.
7th July 1856.

1592. WILLIAM COLBORNE CAMBRIDGE, of Bristol, Agricultural Implement Maker, for an invention for—"An improvement in the construction of press wheel rollers and clod-crushers." *Letters Patent sealed.*

SMITH.
7th July 1856.

1593. HENRY SMITH, of Brierley Hill Iron Works, near Dudley, in the County of Worcester, Manufacturer, for an invention for—"An improvement or improvements in the manufacture of harrows." *Letters Patent sealed.*

HORSFALL.
7th July 1856.

1594. JAMES HORSFALL, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"An improvement or improvements in the manufacture of wire rope." *Letters Patent sealed.*

LAING.
7th July 1856.

1595. WILLIAM LAING, of Denny, in the County of Stirling, North Britain, Manager, for an invention for—"Improvements in stretching or breadthening woven fabrics." *Letters Patent sealed.*

DE COMBETTES.
7th July 1856.

1596. PAUL CHARLES JOSEPH LÉONCE DE COMBETTES, Civil Engineer, of Lyon, Town in the French Empire, for an invention for—"Certain improvements in rotary steam-engines." *Provisional protection only.*

HEALEY.
ALLEN.
7th July 1856.

1597. EDWARD CHARLES HEALEY, of Sidmouth Lodge, Old Brompton, and EDWARD ELLIS ALLEN, of 376, Strand, for an invention for—"An improvement in preparing for use veneers, paper, and other fabrics or sheets made of fibres."
Letters Patent sealed.

CONDY.
7th July 1856.

1598. HENRY BOLLMANN CONDY, of Battersea, for an invention for—"Improvements in defecating or purifying acetic acid and other solutions, also in disinfecting rooms and other places, and in preserving wood." *Letters Patent sealed.*

NOONE.
7th July 1856.

1599. JOHN HENRY NOONE, of 1, Peter Street, Sun Street, Bishopsgate, for an invention for—"Improvements in apparatus for retarding and stopping carriages on railways." *Provisional protection only.*

WATKINS.
8th July 1856.

1600. GEORGE BRADSHAW WATKINS, of Godmanchester, in the County of Huntingdon, Clerk, for an invention for—"Improved apparatus for obtaining infusions or extracts from various substances." *Letters Patent sealed.*

YOUTMAN.
8th July 1856.

1601. WILLIAM YOUTMAN, of Southampton, in the Town and County of Southampton, Gentleman, for an invention for—"Improvements in valves and plugs."
Letters Patent sealed.

WELLS.
8th July 1856.

1602. JOSEPH HENRY GEORGE WELLS, of the firm of Wells and Vasserot, of 45, Essex Street, Strand, London, Patent Agents, for an invention for—"Improvements in pistons for steam and other motive-power engines and pumps in general, and which improvements are also applicable to stuffing-boxes."—*A communication from Eugène Rambaud, of Lyons, France.* *Letters Patent sealed.*

WELLS.
8th July 1856.

1603. JOSEPH HENRY GEORGE WELLS, of the firm Wells and Vasserot, of 45, Essex Street, Strand, London, Patent Agents, for an invention for—"Improvements in governors or regulators."—*A communication from Eugène Rambaud, of Lyons, France.* *Letters Patent sealed.*

HOFFMAN. 8th July 1856.

1604. FREDERICK WILLIAM HOFFMAN, of the City of New York, United States of America, for an invention for—"An improvement or improvements in breech-loading fire-arms." *Letters Patent sealed.*

PAGE. 8th July 1856.

1605. HENRY PAGE, of Whitechapel Road, in the County of Middlesex, Glass Merchant, for an invention for—"Improvements in ornamenting or decorating glass." *Letters Patent sealed.*

BELLEVILLE. 8th July 1856.

1606. JULIEN FRANÇOIS BELLEVILLE, Civil Engineer, of Paris, in the French Empire, for an invention for—"Certain improvements in generating and applying steam." *Letters Patent sealed.*

MARTINEAU. SMITH. 8th July 1856.

1607. ROBERT MARTINEAU, of Birmingham, in the County of Warwick, Manufacturer, and BROOKE SMITH, of Birmingham aforesaid, Manufacturer, for an invention for—"Improvements in taps for drawing off liquids." *Letters Patent sealed.*

NEWTON. 8th July 1856.

1608. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improvements in repeating fire-arms."—*A communication.* *Letters Patent sealed.*

NEWTON. 8th July 1856.

1609. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"An improved fountain pen."—*A communication.* *Letters Patent sealed.*

HERTS. 8th July 1856.

1610. ABRAHAM HERTS, of 22, Bunhill Row, Finsbury, in the County of Middlesex, Commission Agent, for an invention for—"An improved sheet metal bending and tubing machine."—*A communication from William Webster, of Morrisania, United States.* *Letters Patent sealed.*

GRAY. RAWSON. 8th July 1856.

1611. ALEXANDER GRAY, of Glasgow, N.B., Mechanic, and JOHN RAWSON, of Bury, Lancashire, Engraver, for an invention for—"Improvements in means or apparatus for lubricating." *Provisional protection only.*

BAYER. 8th July 1856.

1612. LOUIS BAYER, of Soho, in the County of Middlesex, for an invention for—"An improved stuffing to be used in place of hair or other substances in which such articles are commonly employed." *Provisional protection only.*

SHORT. 8th July 1856.

1613. SEWALL SHORT, of New London, in the County of New London, U.S. America, for an invention for—"Certain improvements in horse shoes and shoes for other animals." *Letters Patent sealed.*

PIGOTT. 8th July 1856.

1614. HENRY PIGOTT, of Glasgow, in the County of Lanark, North Britain, Hat Manufacturer, for an invention for—"Improvements in hats and other coverings for the head." *Provisional protection only.*

FISHER. 8th July 1856.

1615. DAVID FISHER, of 12, Ranelagh Road, Thames Bank, in the County of Middlesex, Engineer, for an invention for—"A composition for coating metal plates or wheels used for grinding, sharpening, or polishing." *Letters Patent sealed.*

ADAMS. 9th July 1856.

1616. WILLIAM BRIDGES ADAMS, of No. 1, Adam Street, Adelphi, in the County of Middlesex, Engineer, for an invention for—"Improvements in railway wheels, axles, and axle-boxes." *Letters Patent sealed.*

KRUPP. 9th July 1856.

1617. ALFRED KRUPP, of Essen, in the Kingdom of Prussia, Cast Steel Manufacturer, for an invention for—"Improvements in the permanent way of railways." *Provisional protection only.*

BODMER. 9th July 1856.

1618. RUDOLPH BODMER, of 2, Thavies Inn, Holborn, in the City of London, for an invention for—"Improvements in self-acting apparatus applicable to certain kinds of machines for spinning cotton and other fibrous substances."—*A communication from Edward Stehelin, of Bitschwiller, in the Empire of France.* *Letters Patent sealed.*

DARLINGTON. DARLINGTON. 9th July 1856.

1619. GEORGE DARLINGTON, now of Kingston, Jamaica, West Indies, and JOHN DARLINGTON, of No. 36, Cannon Street, City of London, for an invention for—"Improvements in the manufacture or production of zinc or spelter." *Provisional protection only.*

HOLROYD. NOBLE. 9th July 1856.

1620. WARD HOLROYD, of Queen's Head, near Halifax, in the County of York, Builder, and WILLIAM NOBLE, of the same place, Cabinet Maker, for an invention for—"Improvements in machinery or apparatus for cutting wood and stone." *Letters Patent sealed.*

HAYDEN. 9th July 1856. — 1621. DANIEL WEBSTER HAYDEN, of Glasgow, in the County of Lanark, North Britain, Engineer, for an invention for—"Improvements in fastenings for window shutters." *Provisional protection only.*

JEROME. 9th July 1856. — 1622. TIMOTHY JEROME, of 125, Great Hampton Street, Birmingham, in the County of Warwick, Button Manufacturer, for an invention for—"Certain improvements in buttons for ornamenting and fastening dresses, as also in loops for attaching or holding buttons on garments while in use." *Letters Patent sealed.*

WILLIAMSON. 9th July 1856. — 1623. ALEXANDER WILLIAM WILLIAMSON, of the London University, Gower Street, in the County of Middlesex, for an invention for—"Improvements in obtaining the rosin and sugar of scammony." *Letters Patent sealed.*

ROBERTSON. 9th July 1856. — 1624. WILLIAM ROBERTSON, of the City of Manchester, in the County of Lancaster, Mechanician, for an invention for—"Improvements in machines for spinning and doubling cotton and other fibrous substances, such machines being of the kinds commonly known as mules and twiners or doublers, and in the means of weighting rollers in the same and other machinery." *Letters Patent sealed.*

WILSON. 9th July 1856. — 1625. EDWARD WILSON, Engineer, of 12, Eccles Street, Dublin, for an invention for—"Improvements in pistons for steam-engines driven by steam or any other elastic fluid, which improvements are also applicable to the pistons or plungers of pumps." *Provisional protection only.*

DEFRIES. 9th July 1856. — 1626. MOSS DEFRIES, of Houndsditch, for an invention for—"Improvements in moderator and other lamps." *Letters Patent sealed.*

KAY. 9th July 1856. — 1627. RICHARD DUGDALE KAY, of Accrington, in the County of Lancaster, Manufacturer, for an invention for—"Improvements in machinery or apparatus for pressing, straining, sifting, or refining colours and thickened mordants."—*A communication.* *Letters Patent sealed.*

EADON. 9th July 1856. — 1628. ROBERT THOMAS EADON, of the firm of Moses Eadon and Sons, of Sheffield, in the County of York, Steel Manufacturers, for an invention for—"An improvement in the manufacture of band saws and other endless bands or hoops of metal." *Letters Patent sealed.*

ADCOCK. 9th July 1856. — 1629. HENRY ADCOCK, of the City Road, for an invention for—"An improvement in casting iron and other metals." *Provisional protection only.*

RUSSELL. 10th July 1856. — 1630. FREDERIC WILLIAM RUSSELL, of Aldgate, Middlesex, for an invention for—"Improvements in the mode of coupling railway carriages." *Provisional protection only.*

MARSH. CATT. 10th July 1856. — 1631. JOHN MARSH, of Nottingham, and JOHN CATT, of Stepney, in the County of Middlesex, for an invention for—"Improvements in the manufacture of certain textile fabrics." *Letters Patent sealed.*

PRINCE. 10th July 1856. — 1632. PAUL PRINCE, of Derby, in the County of Derby, for an invention for—"Improvements in making moulds for casting railway chairs and other articles." *Letters Patent sealed.*

HARDACRE. 10th July 1856. — 1633. SAMUEL HARDACRE, of Miles Platting, in the County of Lancaster, Machinist, for an invention for—"A compound conical spike and spiral double-gridded machine for opening, blowing, scutching, and cleaning cotton, wool, and other fibrous substances." *Letters Patent sealed.*

LANCASTER. 10th July 1856. — 1634. CHARLES WILLIAM LANCASTER, of New Bond Street, in the County of Middlesex, Manufacturer, for an invention for—"An improved method of or apparatus for inking, printing, or stamping surfaces."—*A communication.* *Letters Patent sealed.*

FOWLER. WORBY. 10th July 1856. — 1635. JOHN FOWLER, junior, of Havering, in the County of Essex, and WILLIAM WORBY, of Ipswich, for an invention for—"Improvements in machinery for ploughing and tilling land by steam." *Letters Patent sealed.*

SAXBY. 10th July 1856. — 1636. STEPHEN MARTIN SAXBY, of Rock Ferry, in the County of Chester, Gentleman, for an invention for—"Improvements in ascertaining the errors of mariners' compasses." *Letters Patent sealed.*

LEADBETTER. 11th July 1856. — 1637. ROBERT HUTTON LEADBETTER, of Glasgow, in the County of Lanark, North Britain, Merchant, for an invention for—"Improvements in the preparation of flax." *Provisional protection only.*

HARRINGTON. 11th July 1856.

1638. ROBERT HARRINGTON, of Witham, in the County of Essex, Watch Maker, for an invention for—"Improvements in umbrellas, parasols, walking sticks, whips, &c." *Letters Patent sealed.*

WESTWOOD. 11th July 1856.

1639. JOHN WESTWOOD, Lamp Manufacturer, of Lichfield Street, Walsall, in the County of Stafford, for an invention for—"Improvements in hand, roof, and other railway lamps, parts of which are also applicable to certain descriptions of oil lamps for general purposes." *Letters Patent sealed.*

CHARLTON. TURNBULL. 11th July 1856.

1640. THOMAS CHARLTON, and WILLIAM TURNBULL, of Brentwood, in the County of Essex, Engineers, for an invention for—"Improvements in steam-generators." *Letters Patent sealed.*

DEMBINSKI. 11th July 1856.

1641. General HENRI DEMBINSKI, of Rue Joubert, No. 8, in the City of Paris, in the Empire of France, for an invention for—"An apparatus giving a self-acting motive-power produced by weight, elasticity, compressed water, or any gas whatever." *Provisional protection only.*

CHEVALIER. O'SULLIVAN. 11th July 1856.

1642. JEAN BAPTISTE DESIRÉ CHEVALIER, and NARCISSE RABOUIN O'SULLIVAN, of Paris (Empire of France), for an invention for—"A new or improved method of obtaining or preparing printing surfaces and in printing therefrom." *Letters Patent sealed.*

MONCKTON. 11th July 1856.

1643. EDWARD HENRY CRADOCK MONCKTON, of the Parthenon Club, Regent Street, in the County of Middlesex, for an invention for—"The application of a means or process for destroying grubs and other insects or animalculæ or infusoria injurious to plants." *Letters Patent sealed.*

WORNUM. 11th July 1856.

1644. ALFRED NICHOLSON WORNUM, of Store Street, Bedford Square, in the County of Middlesex, Pianoforte Manufacturer, for an invention for—"Improvements in grand pianofortes." *Letters Patent sealed.*

ORTET. 12th July 1856.

1645. BENOIT FRÉDÉRIC ORTET, of 39, Rue de l'Echiquier, Paris, in the Empire of France, and of No. 4, South Street, Finsbury, London, Gentleman, for an invention for—"A new metallic composition applicable to the coating of surfaces and to the moulding and casting of various objects." *Letters Patent sealed.*

HARTWELL. GLADWIN. GLADWIN. 12th July 1856.

1646. THOMAS MADELY HARTWELL, JAMES WILLIAM GLADWIN, and HENRY GLADWIN, of the City of Manchester, in the County of Lancaster, Stretchers and Finishers, for an invention for—"Improvements in machinery or apparatus for stretching woven fabrics." *Letters Patent sealed.*

ADAMS. 12th July 1856.

1647. WILLIAM BRIDGES ADAMS, of No. 1, Adam Street, Adelphi, in the County of Middlesex, Engineer, for an invention for—"Improvements in the permanent way of railways." *Letters Patent sealed.*

POPE. 12th July 1856.

1648. JOHN POPE, of Wincheap Street, in the City of Canterbury, for an invention for—"Improvements in the application of steam power to ploughing and other agricultural purposes." *Letters Patent sealed; no specification filed.*

PETRIE. 12th July 1856.

1649. WILLIAM PETRIE, of Woolwich, in the County of Kent, Civil Engineer, for an invention for—"A new porous material for filters and other like articles, and for certain modifications or improvements in the manufacture of the material whereby it is adapted to the formation of vessels of capacity, to be employed as a cement, as a water and acid proof lining, as a preservative coating, and as a substitute for stone and earthenware." *Letters Patent sealed.*

HERTS. 12th July 1856.

1650. ABRAHAM HERTS, of 22, Bunhill Row, Finsbury, in the County of Middlesex, for an invention for—"Improved apparatus for holding material during the operation of sewing."—*A communication.* *Provisional protection only.*

AVERY. 12th July 1856.

1651. JOHN AVERY, of 32, Essex Street, Strand, London, Patent Agent, for an invention for—"An improved 'plate-holder' for photographic and other purposes."—*A communication from Madame Millot, of Sault-les-Rethel, France.* *Letters Patent sealed.*

ROWLEY. 12th July 1856.

1652. JOHN ROWLEY, of Camberwell, in the County of Surrey, for an invention for—"Improvements in the manufacture of a material as a substitute for leather." *Provisional protection only.*

RASSANT. 14th July 1856.

1653. PIERRE BEAUPLANT RASSANT, of Paris (Empire of France), and of 45, Essex Street, Strand, London, for an invention for—"A new mechanical contrivance for transforming an alternate into a continuous circular motion."—*Letters Patent sealed.*

BURRELL.
14th July 1856.

1654. CHARLES BURRELL, of St. Nicholas Works, Thetford, in the County of Norfolk, for an invention for—"Improvements in arranging and rendering portable apparatus suitable for distilling from beet root and other vegetable substances."—*Partly a communication.* *Letters Patent sealed.*

DENDY.
14th July 1856.

1655. RICHARD DENDY, of the firm of Wedlake and Dendy, of Hornchurch, in the County of Essex, Agricultural Implement Manufacturers, for an invention for—"Improvements in horse rakes." *Provisional protection only.*

NEWTON.
14th July 1856.

1656. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"An improved mode of securing the plastering of ceilings and walls."—*A communication.* *Letters Patent sealed.*

WILLIAMS.
14th July 1856.

1657. WILLIAM WILLIAMS, of the Village and Parish of Dale, in the County of Pembroke, Engineer and Contractor for Public Works, for an invention for—"Cutting and dressing stone by machinery." *Letters Patent sealed.*

LUCAS.
DE BRIGES.
15th July 1856.

1658. JEAN LOUIS LUCAS, and ALBERT DE BRIGES, Chemists, of Paris, in the French Empire, for an invention for—"Improvements in preparing certain liquid or solid alimentary substances from the husk of a certain fruit." *Letters Patent sealed.*

EDWARDS.
15th July 1856.

1659. WILLIAM EDWARDS, of Salford, in the County of Lancaster, Engineer and Tool Maker, for an invention for—"An improvement or improvements in lathes, applicable also in part or on the whole to tools for boring, shaping, cutting, and screwing metals." *Provisional protection only.*

CLIBRAN.
CLIBRAN.
15th July 1856.

1660. WILLIAM CLIBRAN, and JOSEPH CLIBRAN, of the City of Manchester, Machinists and Manufacturers of 'Gas Regulators,' for an invention for—"Improvements in apparatus or mechanism for regulating and measuring gas." *Letters Patent sealed.*

WATT.
15th July 1856.

1661. WILLIAM WATT, of Belfast, in the County of Antrim, in Ireland, for an invention for—"Improvements in the manufacture of starch." *Letters Patent sealed.*

LEIGH.
15th July 1856.

1662. EVAN LEIGH, of the City of Manchester, in the County of Lancaster, Engineer, for an invention for—"Improvements in the mode or method of generating steam, and applying it for the purpose of obtaining motive-power."—*Partly a communication.* *Provisional protection only.*

KNOWELDEN.
15th July 1856.

1663. JOHN KNOWELDEN, of 3, South Street, Southwark Square, in the Borough of Southwark, in the County of Surrey, for an invention for—"Improvements in apparatus for preventing steam-boiler explosions." *Provisional protection only.*

NEILD.
15th July 1856.

1664. ARTHUR NEILD, of the firm of Neild, Sutcliffe, and Company, of Manchester, in the County of Lancaster, Spinners and Manufacturers, for an invention for—"Improvements in jacquard and other pattern looms."—*A communication.* *Letters Patent sealed.*

JOHNSON.
15th July 1856.

1665. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in apparatus for consuming smoke, to be applied to lamps and gas burners."—*A communication from Jean Baptiste Theodore Audry, of Paris, in the Empire of France, Silk Merchant.* *Letters Patent sealed.*

BLYTH.
BUTCHART.
15th July 1856.

1666. CHARLES BELL BLYTH, of Dundee, in the County of Forfar, North Britain, Manager, and WILLIAM PARELL BUTCHART, of the same place, Mechanic, for an invention for—"Improvements in weaving." *Provisional protection only.*

BOUSFIELD.
15th July 1856.

1667. GEORGE TOMLINSON BOUSFIELD, of Sussex Place, Loughborough Road, in the County of Surrey, for an invention for—"Improvements in pumps."—*A communication.* *Letters Patent sealed.*

SCHMIDT.
SCHMIDT.
16th July 1856.

1668. WILLIAM SCHMIDT, and EDWARD SCHMIDT, of the firm of Schmidt and Company, of Heidelberg, in the Grand Duchy of Baden, for an invention for—"An improved balance for weighing." *Provisional protection only.*

BOURNE.
16th July 1856.

1669. JOHN BOURNE, of No. 9, Billiter Street, in the City of London, and County of Middlesex, Civil Engineer and Patent Agent, for an invention for—"An improved construction of paddle-wheels, usually termed feathering paddle-wheels."—*A communication.* *Provisional protection only.*

TURNER. 16th July 1856.

1670. HENRY TURNER, of Leeds, in the County of York, Leather Merchant, for an invention for—"Improvements in cutting hides for making flexible pipes and for certain other purposes." *Letters Patent sealed.*

FORD. KNOWLES. 16th July 1856.

1671. JAMES FORD, of Preston, in the County of Lancaster, Manager, and PETER KNOWLES, of Bolton-le-Moors, in the same County, Overlooker, for an invention for—"Improvements in machinery for cleaning and preparing cotton and other fibrous substances." *Letters Patent sealed.*

NEWTON. 16th July 1856.

1672. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improved apparatus for obtaining rotary motion."—*A communication.* *Letters Patent sealed.*

MORGAN. 16th July 1856.

1673. RICHARD MORGAN, of Acton, Middlesex, Gentleman, for an invention for—"A pocket case for containing address cards, stamps, and other similar articles." *Letters Patent sealed.*

DUNCAN. 16th July 1856.

1674. THOMAS DUNCAN, of Liverpool, in the County of Lancaster, Civil Engineer, for an invention for—"A combined and compound engine for applying motive-power and for measuring fluids." *Letters Patent sealed.*

BOWLAS. 16th July 1856.

1675. DAVID BOWLAS, of Reddish, in the County of Lancaster, Manufacturer, for an invention for—"Improvements in throstles and doubling frames for spinning and doubling cotton and other fibrous materials." *Letters Patent sealed.*

CAMERON. 16th July 1856.

1676. DUNCAN CAMERON, of Glasgow, in the County of Lanark, North Britain, Engineer, for an invention for—"Improvements in cranes or lifting and lowering apparatus." *Letters Patent sealed.*

JOHNSON. 16th July 1856.

1677. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in circular looms."—*A communication from Jules Nicholas Poivret, of Troyes, in the Empire of France, Merchant.* *Letters Patent sealed.*

ESKHOLME. WILKES. 16th July 1856.

1678. GEORGE ESKHOLME, and HENRY WILKES, both of Rotherham, in the County of York, Engineers, for an invention for—"Improvements in ball cocks and cocks in general for drawing off fluids."—*Letters Patent sealed; no specification filed.*

GURLT. 16th July 1856.

1679. ADOLPHUS FREDERICK GURLT, of 40, Newington Place, Kennington, in the County of Surrey, Mining Engineer, for an invention for—"Improvements in the manufacture of iron and steel." *Letters Patent sealed.*

BARLOW. 17th July 1856.

1680. CHARLES BARLOW, of the Office for Patents, 89, Chancery Lane, London, for an invention for—"An improved surveying instrument."—*A communication.* *Letters Patent sealed.*

BRAGG. 17th July 1856.

1681. HENRY BRAGG the younger, of Belfast, in the County of Antrim, in Ireland, Commission Agent, for an invention for—"Improvements in drying air, and in machinery for stretching, drying, and finishing fabrics." *Letters Patent sealed.*

ANDREW. FORSELL. 17th July 1856.

1682. FREDERICK ANDREW, of the City of Manchester, Dyer, and SAMUEL FORSELL, of the same place, Manager, for an invention for—"Certain improvements in machinery or apparatus for sizing, stiffening, dressing, and polishing yarns and threads." *Provisional protection only.*

CARTWRIGHT. 17th July 1856.

1683. JOHN CARTWRIGHT, of Shrewsbury, in the County of Salop, Agricultural Implement Manufacturer, for an invention for—"Improvements in agricultural implements called chain harrows, for more effectually dressing and cleaning land." *Letters Patent sealed.*

JACQUE. 17th July 1856.

1684. The Reverend GEORGE JACQUE, of Auchterarder, in the County of Perth, North Britain, Clerk, for an invention for—"Improvements in the construction of stringed musical instruments." *Letters Patent sealed.*

SEYMOUR. 17th July 1856.

1685. EBENEZER SEYMOUR, of Bloomfield, New Jersey, in the United States of America, but now residing at Furnival's Inn, in the City of London, Gentleman, for an invention for—"Improvements in the construction of furnaces."—*A communication.* *Letters Patent sealed.*

NEWTON. 17th July 1856.

1686. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"An improved regulator for heating-apparatus."—*A communication.* *Letters Patent sealed.*

CAREY. 17th July 1856.

1687. CHARLES CAREY, of 48, Bessborough Street, Pimlico, in the County of Middlesex, for an invention for—"Improvements in the vessels and filters used for making infusions of coffee and other substances." *Letters Patent sealed.*

HOWELL. 18th July 1856.

1688. FRANCIS BARBER HOWELL, of Lebanon, Ohio, in the United States of America, Farmer, for an invention for—"Certain improvements in machinery for making corks."—*A communication.*—*Complete specification.* *Letters Patent sealed.*

JAY. SMITH. 18th July 1856.

1689. SAMUEL JAY, and GEORGE SMITH, both of No. 246, Regent Street, in the County of Middlesex, for an invention for—"Improvements in the manufacture of skirts, petticoats, mantles, and such like articles of ladies' dress." *Provisional protection only.*

LEUCHARS. 18th July 1856.

1690. WILLIAM LEUCHARS, of No. 38, Piccadilly, in the County of Middlesex, for an invention for—"Improvements in locks for travelling bags."—*Letters Patent sealed.*

MEHREL. 18th July 1856.

1691. ETIENNE MEHREL, of Paris (France), Carpenter, for an invention for—"Improvements in hand planes." *Provisional protection only.*

HIPKINS. BRITTEN. 18th July 1856.

1692. GEORGE FREDERICK HIPKINS, of Birmingham, in the County of Warwick, Manufacturer, and JOHN BRITTEN, of Birmingham aforesaid, Engineer, for an invention for—"Improvements in applying springs or weights for the purpose of closing doors, or resisting shocks, strains, or pressure." *Letters Patent sealed.*

COWLEY. 18th July 1856.

1693. JOHN COWLEY, of Quenington, in the County of Gloucester, for an invention for—"Improvements in the manufacture of paper from straw and other vegetable substances." *Letters Patent sealed.*

DESVIGNES. 18th July 1856.

1694. PETER HUBERT DESVIGNES, of Lewisham, in the County of Kent, for an invention for—"Improvements in machinery for scutching or beating flax, hemp, and other fibrous materials requiring like treatment." *Letters Patent sealed.*

GERBER. 18th July 1856.

1695. JEAN GERBER, of Mulhouse, in the Empire of France, Chemist, for an invention for—"Improvements in printing, dyeing, or impregnating fabrics, yarns, and threads, and in preparing metallic and other powders to be used for these purposes." *Provisional protection only.*

BIRKBY. 18th July 1856.

1696. WILLIAM BEEVERS BIRKBY, of Upper Rawfolds Card Works, Cleckheaton, near Leeds, for an invention for—"Improvements in filleting and fixing pointed teeth in the fillets used in the preparation of flax, tow, hemp, and other fibrous substances." *Letters Patent sealed.*

HAMILTON. 18th July 1856.

1697. JOHN HAMILTON, junior, of Liverpool, for an invention for—"An improvement in the bending of sheet iron for the manufacture of conical tubes." *Letters Patent sealed.*

M'MASTER. M'MASTER. 19th July 1856.

1698. WILLIAM M'MASTER, of Manchester, in the County of Lancaster, Agent, and JAMES M'MASTER, of the same place, Salesman, for an invention for—"An improved apparatus for retaining and releasing cords of window-blinds, or cords, bands, or chains employed for other purposes." *Provisional protection only.*

HOPPER. 19th July 1856.

1699. GEORGE HOPPER, of Houghton-le-Spring Iron Works, in the County of Durham, Engineer, for an invention for—"Improvements in railway pins or spikes." *Provisional protection only.*

ARMOUR. 19th July 1856.

1700. JOHN ARMOUR, of Kirkton Bleach Works, in the County of Renfrew, North Britain, Bleacher, for an invention for—"Improvements in bleaching, washing, or cleansing textile fabrics and materials." *Provisional protection only.*

CROCKETT. 19th July 1856.

1701. JAMES LAWRENCE CROCKETT, of West Ham, in the County of Essex, Manufacturer, for an invention for—"Improvements in evaporating."—*A communication.* *Letters Patent sealed.*

NOTON. 19th July 1856.

1702. WILLIAM NOTON, of Oldham, in the County of Lancaster, Manager, for an invention for—"Certain improvements in self-acting mules and other machines of the like nature for spinning and doubling." *Letters Patent sealed; no specification filed.*

RYDER. BENTLEY. 19th July 1856.

1703. JAMES RYDER, of Bolton-le-Moors, in the County of Lancaster, Auctioneer and General Agent, and DANIEL BENTLEY, of the same place, Millwright, for an invention for—"Improvements in machinery and apparatus for folding and measuring fabrics." *Letters Patent sealed; no specification filed.*

CLARK. 19th July 1856.

1704. WILLIAM STETTINIUS CLARK, of 19, Warwick Street, Charing Cross, in the County of Middlesex, Gentleman, for an invention for—"Improvements in machinery or apparatus for digging, pressing, and moulding peat."—*A communication from Abraham Fitts.* *Letters Patent sealed.*

CROCKETT. 19th July 1856.

1705. JAMES LAWRENCE CROCKETT, of West Ham, in the County of Essex, Manufacturer, for an invention for—"Improvements in the manufacture of sulphuric acid."—*A communication.* *Letters Patent sealed.*

WHITEHOUSE. 19th July 1856.

1706. JOHN WHITEHOUSE, junior, of Birchall Street, Birmingham, in the County of Warwick, Brass Founder, for an invention for—"Improvements in making, mounting, and spindling knobs applicable for doors and other purposes." *Letters Patent sealed.*

JUMP. 19th July 1856.

1707. WILLIAM ASTBURY JUMP, of Moulton, near Northwich, in the County of Chester, Salt Manufacturer, for an invention for—"Improvements in the manufacture of salt." *Letters Patent sealed.*

JUMP. 19th July 1856.

1708. WILLIAM ASTBURY JUMP, of Moulton, near Northwich, in the County of Chester, Salt Manufacturer, for an invention for—"Improvements in apparatus for supplying with fuel the furnaces of steam-boilers and other furnaces, and in the method of cleaning the fire bars thereof." *Letters Patent sealed.*

SMITH. HARRISON. 19th July 1856.

1709. JOHN SMITH, of Oldham, in the County of Lancaster, and ENOCH HARRISON, of Manchester, in the same County, Manufacturers, for an invention for—"Improvements in machinery or apparatus for warping and beaming." *Letters Patent sealed.*

YOUNG. 19th July 1856.

1710. EDWARD WILLIAM YOUNG, of No. 22, Maidstone Road, Rochester, in the County of Kent, Civil Engineer, for an invention for—"Improvements in the construction of bridges." *Letters Patent sealed.*

PAPINEAU. 19th July 1856.

1711. WILLIAM PAPINEAU, of Harrow Bridge, Stratford, Manufacturing Chemist, for an invention for—"An improvement in the production of spirits of wine." *Letters Patent sealed.*

BROOMAN. 19th July 1856.

1712. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent Agent, for an invention for—"An improved method of supplying air to gas and other lights."—*A communication.* *Letters Patent sealed.*

ILIFFE. NEWMAN. 19th July 1856.

1713. HENRY JEREMIAH ILIFFE, and JAMES NEWMAN, of Birmingham, in the County of Warwick, Manufacturers, for an invention for—"Improvements in the manufacture of buttons." *Provisional protection only.*

WARREN. JONES. CROWTHER. 21st July 1856.

1714. JAMES WARREN, Carpenter, JOHN JONES, Gentleman, and BENJAMIN CROWTHER, Gentleman, all of the Clapham Road, in the County of Surrey, for an invention for—"An improved churn." *Provisional protection only.*

LEAK. 21st July 1856.

1715. ELIAS LEAK, of Longton, in the County of Stafford, Lathe Maker, for an invention for—"A thimble pillar with points and branches to be used in placing 'glost' china and earthenware in ovens and kilns, when firing, burning, or baking such ware, in lieu of the cockspurs and stilts now in use for that purpose." *Letters Patent sealed.*

GAUDIN. CHOUMARA. 21st July 1856.

1716. MARC ANTOINE AUGUSTIN GAUDIN, Chemist, and EUGÈNE XAVIER CHOUMARA, Clerk, both of Paris, in the Empire of France, for an invention for—"Manufacturing factitious wholesome milk." *Letters Patent sealed.*

BARBOUR. 21st July 1856.

1717. FRANCIS BARBOUR, of the City of Manchester, in the County of Lancaster, Linen Manufacturer, for an invention for—"Improvements in pen holders."—*A communication from Ebenezer W. Hanson, and Emanuel G. Kromer, of Philadelphia, United States of America.* *Letters Patent sealed.*

FISHER. 21st July 1856.

1718. JOHN PURSLOE FISHER, of Edgbaston, near Birmingham, in the County of Warwick, for an invention for—"Improvements in cues used at billiards, bagatelle, and other similar games." *Letters Patent sealed.*

CLARK. 21st July 1856.

1719. JAMES CLARK, of Newton Heath, Manchester, India-Rubber Manufacturer, for an invention for—"Improvements in the manufacture of waterproof fabrics." *Letters Patent sealed.*

RICHARDSON. BILLUPS. 21st July 1856

1720. ROBERT RICHARDSON, of 26, Great George Street, Westminster, Civil Engineer, and JONATHAN EDWIN BILLUPS, of Llanelly, South Wales, Railway Contractor, for an invention for—"Improvements in the permanent way of railways." *Letters Patent sealed.*

GEDGE. 21st July 1856.

1721. JOHN GEDGE, of No. 4, Wellington Street South, Strand, in the County of Middlesex, Patent Agent, for an invention for—"Improvements in obtaining and applying motive-power."—*A communication from Victor Cantillon, residing in Belgium.* *Provisional protection only.*

SIMPSON. 21st July 1856.

1722. FREDERICK SIMPSON, of Redhill, Surrey, for an invention for—"An improved mode of stopping bottles." *Letters Patent sealed.*

VERGNES. 21st July 1856.

1723. MAURICE VERGNES, of the City and State of New York, United States of America, for an invention for—"Improvements in electro-galvanic machines for producing motion by galvanic electricity." *Letters Patent sealed.*

GREEN. 21st July 1856.

1724. WILLIAM GREEN, of York Street, City Road, London, in the County of Middlesex, for an invention for—"Improvements in treating, ornamenting, and waterproofing fabrics, and in machinery or apparatus for effecting the same." *Letters Patent sealed.*

HODGES. 21st July 1856.

1725. JOHN EDWARD HODGES, of Leicester, in the County of Leicester, Manufacturer, for an invention for—"Improvements in machinery for the manufacture of looped fabrics." *Letters Patent sealed.*

STATHAM. WHITEHOUSE. 21st July 1856.

1726. SAMUEL STATHAM, of Islington, in the County of Middlesex, Gentleman, and EDWARD ORANGE WILDMAN WHITEHOUSE, of Brighton, in the County of Sussex, Surgeon, for an invention for—"An improvement in the arrangements for or working of electric telegraphs." *Provisional protection only.*

BING. 21st July 1856.

1727. JACOB BING, of Hamburg, and 4, South Street, Finsbury, London, Merchant, for an invention for—"A new sauce boat or vessel for containing liquids of different densities." *Provisional protection only.*

NEWTON. 22nd July 1856.

1728. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improvements in machinery for reaping and mowing."—*A communication from William H. Hovey.* *Letters Patent sealed.*

AMET. 22nd July 1856.

1729. CLOTHIDE AMET, of Tavistock Street, in the County of Middlesex, for an invention for—"Improved means of distending articles of dress and preserving the form or shape thereof."—*A communication from R. C. Milliet, of Bésançon, France.* *Letters Patent sealed.*

COLMAN. 22nd July 1856.

1730. SAMUEL COLMAN, of the City of Norwich, Manufacturer, for an invention for—"Improvements in steam-boilers." *Letters Patent sealed.*

WEISSKOPF. 22nd July 1856.

1731. ELIAS WEISSKOPF, of Pesth, in Hungary, and 4, South Street, Finsbury, London, Merchant, for an invention for—"An artificial combustible chiefly applicable to the kindling of fires." *Letters Patent sealed.*

COWPER. 22nd July 1856.

1732. CHARLES COWPER, of No. 20, Southampton Buildings, Chancery Lane, in the County of Middlesex, Patent Agent, for an invention for—"Improvements in lighting and extinguishing gas lights."—*A communication from Simon Petit, of Versailles, in France.* *Letters Patent sealed.*

BURG. 22nd July 1856.

1733. SVEN JOHAN AGRELL BURG, of No. 1, Serle Street, Lincoln's Inn, in the County of Middlesex, for an invention for—"Certain improved apparatus for preventing the explosion of steam-boilers."—*A communication from William Palmer, of the City of New York, in the United States of America.* *Letters Patent sealed.*

HINDLE. 22nd July 1856.

1734. HENRY HINDLE, of Cavendish Street, Ashton-under-Lyne, in the County of Lancaster, for an invention for—"Improvements in valves and apparatus for governing steam-engines, and for increasing the safety of steam-boilers." *Letters Patent sealed.*

BUTCHER. 22nd July 1856.

1735. SAMUEL BUTCHER, of Bristol, Ironmonger, for an invention for—"Improvements in kitchen ranges." *Provisional protection only.*

IMRAY.
22nd July 1856.

1736. JOHN IMRAY, of Bridge Road, Lambeth, in the County of Surrey, Engineer, for an invention for—"Improvements in bending timber." *Letters Patent sealed.*

CLARK.
22nd July 1856.

1737. JAMES CLARK, of Newton Heath, Manchester, India-Rubber Manufacturer, for an invention for—"Improvements in the manufacture of beds, mattresses, cushions, and seats." *Letters Patent sealed.*

BRAYSHAY.
23rd July 1856.

1738. JOHN BRAYSHAY, of Cinderhill, Ringley Bridge, near Bolton-le-Moors, in the County of Lancashire, for an invention for—"Certain improvements in boilers for generating steam." *Letters Patent sealed.*

NORTH.
23rd July 1856.

1739. GEORGE NORTH, of 9, Ashburnham Road, Greenwich, in the County of Kent, Coach Builder, for an invention for—"An improved spring catch for the security of jewellery and articles of personal ornament and general utility." *Letters Patent sealed.*

BERTHIEZ.
23rd July 1856.

1740. SAMUEL FREDÉRIC BERTHIEZ, of No. 6, Red Lion Street, Borough, in the County of Surrey, for an invention for—"An improvement in engines to be worked by a new elastic fluid in substitution of steam generated out of water." *Letters Patent sealed.*

POTTS.
23rd July 1856.

1741. FERDINAND POTTS, Tube Manufacturer, of Birmingham, in the County of Warwick, for an invention for—"Certain improvements in tags for stay and other laces, as also in the machinery for forming and finishing the same." *Letters Patent sealed.*

ONIONS.
23rd July 1856.

1742. JOHN ONIONS, of Wellington Place, Blackfriars Road, Southwark, County of Surrey, Engineer, for an invention for—"Improvements in the manufacture of iron."—*Complete specification.* *Letters Patent sealed.*

WEBSTER.
23rd July 1856.

1743. WILLIAM WEBSTER, of 22, Bunhill Row, in the County of Middlesex, for an invention for—"An improved steam and fire regulator."—*A communication from Joseph Woodruff, of New Jersey, United States of America.* *Provisional protection only.*

WEBSTER.
23rd July 1856.

1744. WILLIAM WEBSTER, of 22, Bunhill Row, in the County of Middlesex, for an invention for—"Improvements in pumps."—*A communication from Ambrose Tower, of New York.* *Letters Patent sealed.*

ELLISON.
23rd July 1856.

1745. ROGER BOLAM ELLISON, of No. 9, Brook Street, London Road, Carlisle, in the County of Cumberland, Locomotive Engine Driver, for an invention for—"Improvements in electric telegraph apparatus." *Provisional protection only.*

MABIE.
23rd July 1856.

1746. GILES MABIE, of Rockford City, Winnebago County, State of Illinois, in the United States of America, but now residing at Byron's Hotel, 2, Rue Favart, Paris, in the Empire of France, for an invention for—"Improved machinery for mowing and reaping."—*Partly communicated by the late John H. Manny.* *Letters Patent sealed.*

BAIN.
HEYWOOD.
23rd July 1856.

1747. ALEXANDER BAIN, of Brompton, in the County of Middlesex, and BENNETT JOHNS HEYWOOD, of Leicester Square, in the same County, Gentleman, for an invention for—"Improved apparatus for supplying and drawing off liquids, and for stopping the flow of liquids and aëriform bodies." *Provisional protection only.*

DOUBLEDAY.
23rd July 1856.

1748. HENRY DOUBLEDAY, of Coggeshall, in the County of Essex, for an invention for—"An improvement in the manufacture of starch."—*Letters Patent sealed.*

DERBYSHIRE.
23rd July 1856.

1749. JOHN DERBYSHIRE, of Longton Potteries, in the County of Stafford, for an invention for—"Improvements in cocks, taps, and valves." *Letters Patent sealed.*

WEBSTER.
23rd July 1856.

1750. JOHN WEBSTER, of 1ª, Moreton Terrace, Pimlico, in the County of Middlesex, for an invention for—"Improvements in distilling and treating rough turpentine and resinous matters." *Provisional protection only.*

DETOUCHE.
HOUDIN.
23rd July 1856.

1751. CONSTANTIN LOUIS DETOUCHE, and JEAN JACQUES EMILE ROBERT HOUDIN, junior, of Paris (Empire of France), for an invention for—"Improvements in the application of clocks or time-keepers actuated by electricity to street and other lamps." *Provisional protection only.*

PRÉVÔT.
23rd July 1856.

1752. PIERRE CHARLES PRÉVÔT, of Agen (Empire of France), for an invention for—"An improved railway break." *Provisional protection only.*

PETSCHLER. 24th July 1856.

1753. HELMUTH CARL FRIEDRICH MARTIN PETSCHLER, of Manchester, in the County of Lancaster, Clerk, for an invention for—"Improvements in obtaining and applying motive-power, and in the machinery or apparatus connected therewith." *Provisional protection only.*

ASHMAN. 24th July 1856.

1754. JAMES ASHMAN, of Swansea, Glamorganshire, for an invention for—"Improvements in the manufacture of artificial limbs." *Letters Patent sealed.*

BURTON. 24th July 1856.

1755. CHARLES BURTON, of 162, Regent Street, for an invention for—"Improvements in warming houses and other buildings." *Letters Patent sealed.*

BOUSFIELD. 24th July 1856.

1756. GEORGE TOMLINSON BOUSFIELD, of Sussex Place, Loughborough Road, Brixton, in the County of Surrey, for an invention for—"An improvement in the manufacture of driving straps or bands."—*A communication.* *Letters Patent sealed.*

BOUSFIELD. 24th July 1856.

1757. GEORGE TOMLINSON BOUSFIELD, of Sussex Place, Loughborough Road, Brixton, in the County of Surrey, for an invention for—"Improvements in the manufacture of flexible hose and tubes."—*A communication.* *Letters Patent sealed.*

COLLIER. CROSSLEY. CROSSLEY. 24th July 1856.

1758. GEORGE COLLIER, and JOHN CROSSLEY, both of Halifax, in the County of York, and JAMES WILLIAM CROSSLEY, of Brighouse, in the Parish of Halifax, and in the same County, for an invention for—"Improvements in finishing and stretching woven fabrics." *Letters Patent sealed.*

COPELAND. 24th July 1856.

1759. GEORGE ALEXANDER COPELAND, of Constantine, near Falmouth, Cornwall, for an invention for—"An improved safety blasting cartridge for the use of miners and quarrymen." *Letters Patent sealed.*

JUDKINS. 24th July 1856.

1760. CHARLES TIOT JUDKINS, of 98, Fleet Street, London, Middlesex, and 35, Corporation Street, Manchester, Merchant, for an invention for—"An improved gas regulator." *Letters Patent sealed.*

MATHER. FORSHAW. 24th July 1856.

1761. JOSHUA MATHER, and WILLIAM FORSHAW, of Bolton-le-Moors, in the County of Lancaster, Mechanics, for an invention for—"Certain improvements in pickers for looms and apparatus connected therewith." *Letters Patent sealed.*

BROOMAN. 24th July 1856.

1762. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent Agent, for an invention for—"Improvements in grindstones."—*A communication from B. Picard, of Fontenay-le-Chateau.* *Letters Patent sealed.*

CATTAERT. 24th July 1856.

1763. CHARLES FRANÇOIS CATTAERT, Merchant, of Paris, in the French Empire, for an invention for—"Improvements in the stoppering of inkstands, bottles, pots, jars and other vessels, and closing cocks." *Provisional protection only.*

BOUSFIELD. 25th July 1856.

1764. GEORGE TOMLINSON BOUSFIELD, of Sussex Place, Loughborough Road, Brixton, in the County of Surrey, for an invention for—"Improvements in the manufacture of vulcanized india-rubber thread."—*A communication.* *Letters Patent sealed; no specification filed.*

SPENCER. 25th July 1856.

1765. GEORGE SPENCER, of No. 6, Cannon Street West, in the City of London, Railway Spring Manufacturer, for an invention for—"Improvements in the couplings of feed pipes of locomotive steam-engines and tenders."—*A communication.* *Letters Patent sealed.*

LORD. LORD. LORD. LORD. 25th July 1856.

1766. EDWARD LORD, THOMAS LORD, ABRAHAM LORD, and WILLIAM LORD, all of Todmorden, in the County of York, Machine Makers, for an invention for—"Improvements in machinery for opening, blowing, scutching, and preparing cotton and other fibrous substances." *Letters Patent sealed.*

WOOD. 25th July 1856.

1767. WILLIAM WOOD, of Monkhill House, near Pontefract, in the County of York, Gentleman, for an invention for—"Improvements in machinery or apparatus for weaving pile fabrics." *Letters Patent sealed.*

BYFORD. 25th July 1856.

1768. THOMAS BYFORD, of Carlton Villas, 34, Edgware Road, for an invention for—"Improvements in horses' bits." *Letters Patent sealed.*

STUART. 25th July 1856.

1769. ROBERT STUART, of Glasgow, in the County of Lanark, North Britain, Miner, for an invention for—"Improvements in cutting stone and other mineral substances." *Letters Patent sealed.*

WRIGLEY. 25th July 1856.

1770. THOMAS WRIGLEY, of Bury, in the County of Lancaster, Paper Manufacturer, for an invention for—"Certain improvements in machinery or apparatus for cleaning 'cotton waste' or other materials used in the manufacture of paper."
Letters Patent sealed.

JOHNSON. 25th July 1856.

1771. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in scutching machines."—*A communication from Charles Leyherr, of Laval, in the Empire of France, Spinner.*
Provisional protection only.

JAY. SMITH. 25th July 1856.

1772. SAMUEL JAY, and GEORGE SMITH, both of No. 246, Regent Street, in the County of Middlesex, for an invention for—"Improvements in stuffing or padding couches, cushions, bedding, chairs, and other similar articles."—*Letters Patent sealed.*

HOWES. 25th July 1856.

1773. EBENEZER HOWES, of Liverpool, in the County of Lancaster, Gentleman, for an invention for—"An improved construction of anchor."—*A communication from Captain Samuel Clarke, of New York, in the United States of America.*
Provisional protection only.

ANDERSON. 25th July 1856.

1774. WILLIAM LAMPHIER ANDERSON, of Norwood, in the County of Surrey, Gentleman, for an invention for—"Improvements in propellers."
Provisional protection only.

BAGGS. 25th July 1856.

1775. ISHAM BAGGS, of Manchester Street, Argyle Square, in the County of Middlesex, for an invention for—"Improvements in apparatus for lighting, signalling, and telegraphing by means of electricity." *Letters Patent sealed.*

DENIS. 25th July 1856.

1776. JULIEN DENIS, of Queenhithe, in the City of London, for an invention for—"Improvements in cutting or perforating steel and other metals."—*A communication.*
Letters Patent sealed.

PLATT. 26th July 1856.

1777. JOSEPH PLATT, of Audlem, in the County Palatine of Chester, Gentleman, for an invention for—"Improvements in door knockers."—*Provisional protection only.*

HODGES. 26th July 1856.

1778. CHARLES HODGES, of the City of Manchester, in the County of Lancaster, Manufacturer and Merchant, for an invention for—"Improvements in apparatus for unwinding silk thread or yarn from the hank."—*A communication.*
Letters Patent sealed.

PAULING. 26th July 1856.

1779. RICHARD CLARKE PAULING, of Great George Street, in the City of Westminster, Civil Engineer, for an invention for—"Improvements in giving increased buoyancy to ships and vessels, in raising sunken vessels, in keeping structures watertight, and in propelling vessels." *Letters Patent sealed.*

DICKINSON. 26th July 1856.

1780. JAMES DICKINSON, of Liverpool, in the County of Lancaster, Ship and Anchor Smith, for an invention for—"Improvements in anchors and in the manufacture of the same." *Letters Patent sealed.*

YEADON. CHAPMAN. 26th July 1856.

1781. SAMUEL YEADON, of Idle, near Bradford, in the County of York, Reed Maker, and GEORGE CHAPMAN, of Stockport, in the County of Chester, Draper, for an invention for—"Improvements in the construction of reeds for weaving, and in machinery or implements and materials to be used in such construction."
Letters Patent sealed.

COOKE. 26th July 1856.

1782. GEORGE COLLETON COOKE, of George Yard, Lombard Street, in the City of London, Gentleman, for an invention for—"Improvements in stereoscopes."
Letters Patent sealed.

REMINGTON. 26th July 1856.

1783. HENRY REMINGTON, of Camberwell, in the County of Surrey, Gentleman, for an invention for—"An improved gas heating and cooking apparatus."
Letters Patent sealed.

COPLIN. 28th July 1856.

1784. JOHN COPLIN, of Falmouth, in the County of Cornwall, Merchant, for an invention for—"Improvements in ships' windlasses." *Provisional protection only.*

RITCHIE. 28th July 1856.

1785. GEORGE RITCHIE, of 3, Ponsonby Street, Pimlico, for an invention for—"Improvements in the manufacture of boots and shoes from materials not hitherto used for that purpose." *Provisional protection only.*

ROBINSON. 28th July 1856.

1786. HENRY ROBINSON, of Settle, in the County of York, Coal Agent, for an invention for—"Improvements in arrangements and mechanism for the conveyance or transport of loads or weights." *Letters Patent sealed.*

EABORN. ROBINSON. 28th July 1856.

1787. EDMUND EABORN, and MATTHEW ROBINSON, Engineers, Trading as Copartners, and carrying on business in Clement Street, Birmingham, in the County of Warwick, for an invention for—"Improvements in machinery to be used for confectionery purposes." *Letters Patent sealed.*

NEWTON. 28th July 1856.

1788. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"An improved instrument for taking altitudes."—*A communication.* *Letters Patent sealed.*

NEWTON. 28th July 1856.

1789. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Certain improvements in steam-engine governors."—*A communication.* *Provisional protection only.*

LIVSEY. 29th July 1856.

1790. PETER JOEL LIVSEY, of the City of Manchester, in the County of Lancaster, Patent Agent, for an invention for—"Improvements in arrangements and mechanism for rotating and retaining the rollers of window blinds." *Provisional protection only.*

GRIFFIN. DULEY. 29th July 1856.

1791. WILLIAM GRIFFIN, of the Town and County of Northampton, and ELIZABETH DULEY, of the same place, for an invention for—"Improvements in studs and buttons for fastening articles of dress." *Letters Patent sealed.*

THATCHER. 29th July 1856.

1792. ROBERT THATCHER, of Oldham, in the County of Lancaster, Cotton Spinner, for an invention for—"Certain improvements in preparing for doubling or spinning cotton or other fibrous substances."—*Complete specification.* *Letters Patent sealed.*

KNOWLES. BUXTON. 29th July 1856.

1793. JOHN KNOWLES, of Calow, in the County of Derby, Ironmaster, and WILLIAM BUXTON, of Brimington, in the said County of Derby, Manager of Ironworks, for an invention for—"Improvements in tuyeres." *Letters Patent sealed.*

NEWTON. 29th July 1856.

1794. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Certain improvements in the process of generating illuminating gas."—*A communication.* *Letters Patent sealed.*

BOWERS. 29th July 1856.

1795. HENRY RICHARD BOWERS, of Penbedw, near Ruabon, in the County of Denbigh, Manufacturer, for an invention for—"Improvements in machinery or apparatus for grinding, crushing, or pulverizing clay and other substances." *Provisional protection only.*

DAVIES. 29th July 1856.

1796. GEORGE DAVIES, of the Office for Patents, No. 1, Serle Street, Lincoln's Inn, in the County of Middlesex, Civil Engineer, for an invention for—"An improved portable apparatus for copying letters and other manuscripts."—*A communication.* *Provisional protection only.*

ANDERSON. 29th July 1856.

1797. ALEXANDER WILLIAMS ANDERSON, of the Island of Trinidad, Inspector of Schools and Advocate at Law, for an invention for—"Improvements in refining sugar." *Provisional protection only.*

CARON. 30th July 1856.

1798. FELIX CARON, of Great Titchfield Street, in the County of Middlesex, for an invention for—"Improvements in fastening the handles of door locks and door finger-plates." *Provisional protection only.*

SIEVIER. 30th July 1856.

1799. ROBERT WILLIAM SIEVIER, Sculptor, of Upper Holloway, in the County of Middlesex, in the United Kingdom of Great Britain, but now of Bruxelles, in the Kingdom of Belgium, for an invention for—"Improvements in preserving wood from decay and also from destruction by insects." *Letters Patent sealed.*

EVETTE. 30th July 1856.

1800. HENRI EVETTE, Manufacturer, of Lizieux, Town in the French Empire, for an invention for—"Improvements in looms for weaving." *Letters Patent sealed.*

DENIS. 30th July 1856.

1801. JULIEN DENIS, of Queenhithe, in the City of London, for an invention for—"An improved gelatinous and economical soap."—*A communication.* *Letters Patent sealed.*

BROOMAN. 30th July 1856.

1802. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent Agent, for an invention for—"Improvements in ladies' skirts or petticoats and dress improvers or bustles."—*A communication from Madame Vernier.* *Provisional protection only.*

SIMONS. 30th July 1856.

1803. FRANCIS CONSTABLE SIMONS, of Kensington, in the County of Middlesex, Lieutenant in the Bengal Artillery, for an invention for—"An improvement in rifling the barrels of fire-arms and ordnance." *Provisional protection only.*

HOPWOOD. 31st July 1856.

1804. JOSEPH HOPWOOD, of Bolton-le-Moors, in the County of Lancaster, Millwright, for an invention for—"Improvements in machinery for measuring and folding fabrics." *Letters Patent sealed; no specification filed.*

HOLCROFT. JOHNSON. 31st July 1856.

1805. GEORGE HOLCROFT, of the City of Manchester, in the County of Lancaster, Consulting Engineer, and PETER JOHNSON, of Wigan, in the same County, Cotton Spinner, for an invention for—"Improvements in the manufacture of cement and in the application of a known material to cementing purposes." *Letters Patent sealed.*

KERR. 31st July 1856.

1806. JOHN JAMES KERR, of Twickenham, in the County of Middlesex, Lieutenant in the Royal Navy, for an invention for—"Improvements in the manufacture of cartridges for fire-arms." *Provisional protection only.*

TORASSA. 31st July 1856.

1807. CONSTANTINE JOHN BAPTIST TORASSA, of Genoa, for an invention for—"Improvements in obtaining motive-power by the aid of explosive gases." *Letters Patent sealed.*

EVANS. 31st July 1856.

1808. JOHN EVANS, of Castleton, in the Parish of Monkton, in the County of Pembroke, Annuitant, for an invention for—"A progressive lever by which is obtained an increase of power over the amount of power applied."—*Provisional protection only.*

NEWTON. 31st July 1856.

1809. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"A new musical instrument to be played by the agency of steam or highly compressed air."—*A communication.* *Letters Patent sealed.*

NEWTON. 31st July 1856.

1810. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"A new or improved process for obtaining aluminium."—*A communication from Messrs. Rousseau Frères, and Paul Morin.* *Letters Patent sealed.*

BROOMAN. 31st July 1856.

1811. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent Agent, for an invention for—"An improvement in the construction of carriages and waggons."—*A communication.* *Letters Patent sealed.*

BROOMAN. 31st July 1856.

1812. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent Agent, for an invention for—"An improved auger or boring tool."—*A communication.* *Letters Patent sealed.*

CHAMBLANT. 31st July 1856.

1813. PIERRE MARIE JOSEPH CHAMBLANT, of 36, Rue de Lanery, Paris, for an invention for—"Improvements in the manufacture of glass." *Letters Patent sealed.*

COLTMAN. 31st July 1856.

1814. WILLIAM COLTMAN, of Leicester, Wine Merchant, for an invention for—"Improvements in knitting-machinery." *Letters Patent sealed.*

WICKSTEED. 31st July 1856.

1815. THOMAS WICKSTEED, of Coleman Street, in the City of London, Civil Engineer, for an invention for—"Improvements in separating sewage and other matters from water or fluid mixed therewith." *Letters Patent sealed.*

ROUTLEDGE. 31st July 1856.

1816. THOMAS ROUTLEDGE, of 17, Gracechurch Street, for an invention for—"Improvements in the manufacture of half stuff and paper." *Letters Patent sealed.*

PATON. 1st August 1856.

1817. WILLIAM PATON, of Spring Vale, Glasgow, in the County of Lanark, North Britain, Engineer, for an invention for—"Improvements in railway wheels." *Provisional protection only.*

TOLHAUSEN. 1st August 1856.

1818. ALEXANDRE TOLHAUSEN, of No. 7, Duke Street, Adelphi, London, County of Middlesex, Sworn Interpreter at the Imperial Court of Paris, for an invention for—"A new and improved flexible pocket umbrella, being likewise applicable to common and other sticks, canes, &c."—*A communication from Louis Amand Mangin, Paris.* *Letters Patent sealed.*

BRETT. 1st August 1856.

1819. JOHN WATKINS BRETT, of Hanover Square, in the County of Middlesex, Gentleman, for an invention for—"Improvements in letter and numeral printing electric telegraphs." *Letters Patent sealed.*

WOOD.
SMITH.
1st August 1856.

1820. WILLIAM WOOD, of Monkhill, near Pontefract, in the County of York, Gentleman, and MATTHEW SMITH, of Heywood, in the County of Lancaster, Manufacturer, for an invention for—"Improvements in looms for weaving terry and cut pile fabrics." *Letters Patent sealed.*

WOOD.
SMITH.
1st August 1856.

1821. WILLIAM WOOD, of Monkhill, near Pontefract, in the County of York, Gentleman, and MATTHEW SMITH, of Heywood, in the County of Lancaster, Manufacturer, for an invention for—"Improvements in apparatus for cutting the wires out of terry fabrics." *Letters Patent sealed.*

AVERY.
1st August 1856.

1822. JOHN AVERY, of 32, Essex Street, Strand, London, Patent Agent, for an invention for—"Improvements in bonnets and other coverings for the head."—*A communication.* *Letters Patent sealed.*

CHEVALIER.
1st August 1856.

1823. EUGÈNE PERRÉ CHEVALIER, of Brussels, in the Kingdom of Belgium, at present residing in Paris, Gentleman, for an invention for—"Improvements in the manufacture of cigars." *Letters Patent sealed.*

TILGHMAN.
1st August 1856.

1824. RICHARD ALBERT TILGHMAN, of Philadelphia, in the United States of America, Chemist, for an invention for—"Improvements in hydro-extractors or centrifugal machines." *Letters Patent sealed.*

REEVES.
1st August 1856.

1825. ROBERT REEVES, of Bratton Westbury, Wilts, Agricultural Implement Maker, for an invention for—"Improvements in machinery for sowing or depositing seeds and manure." *Letters Patent sealed.*

SHAW.
1st August 1856.

1826. WILLIAM FRANKLIN SHAW, of the State of Massachusetts, of the United States of America, for an invention for—"An improved burner or apparatus for the combustion of air and inflammable gas."—*Complete specification.* *Letters Patent sealed.*

LONG.
2nd August 1856.

1827. OLIVER LONG, of Cornhill, in the City of London, Commission Agent, for an invention for—"Improvements in mechanical knife-cleaners."—*Letters Patent sealed.*

BROOMAN.
2nd August 1856.

1828. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent Agent, for an invention for—"Improvements in the manufacture of artificial fuel."—*A communication.* *Letters Patent sealed.*

DONKIN.
2nd August 1856.

1829. THOMAS DONKIN, of Bermondsey, in the County of Surrey, Engineer, for an invention for—"Improvements in the glazing of paper."—*A communication.* *Letters Patent sealed.*

RHODES.
2nd August 1856.

1830. JOSIAH RHODES, of the firm of J. Rhodes & Company, of the Holborn Brass Foundry, in the Town and County of the Town of Nottingham, for an invention for—"Improvements in machinery or apparatus for reducing turnips and other vegetable substances to a pulpous state." *Letters Patent sealed.*

GREEN.
2nd August 1856.

1831. THOMAS GREEN, of Leeds, Mowing Machine Maker, for an invention for—"Improvements in mowing-machinery." *Letters Patent sealed.*

HARRIS.
4th August 1856.

1832. JOSIAH HARRIS, of Dolgelly, in the County of Merioneth, North Wales, Gentleman, for an invention for—"An apparatus for collecting and condensing smoke and gases generated in furnaces." *Provisional protection only.*

GOTTGETREU.
4th August 1856.

1833. CHARLES GUSTAVUS GOTTGETREU, 41, Charterhouse Square, London, for an invention for—"Lithographic printing in oil and varnish colours and metal, on glass, wood, papier-mâché, marble, metal, porcelain, or any other material that offers a suitable surface." *Provisional protection only.*

CADIAT.
4th August 1856.

1834. NICOLAS CADIAT, of Rue de l'Odéon, 12, Paris, Civil Engineer, for an invention for—"The application of centrifugal force for purifying liquids." *Letters Patent sealed.*

LAUNAY.
CHOPIN.
4th August 1856.

1835. CHARLES THEODULE LAUNAY, and JULES CHOPIN, Gas Fitters, of Paris, in the French Empire, for an invention for—"Improvements in increasing the illuminating power of gas." *Letters Patent sealed.*

WALKER.
SCRIMGEOUR.
4th August 1856.

1836. GEORGE WALKER, of Belfast, in the County of Antrim, Spinner, and JAMES SCRIMGEOUR, of the same place, Machinist, for an invention for—"Improvements in spinning-frames." *Letters Patent sealed.*

DAFT.
4th August 1856.

1837. THOMAS BARNABAS DAFT, of the Irish Engineering Company, Dublin, for an invention for—"Improvements in the manufacture of cast iron pipes."
Letters Patent sealed.

WRIGHT.
4th August 1856.

1838. ALEXANDER WRIGHT, of Millbank Street, Westminster, Engineer, for an invention for—"Improvements in lighting mines and subterranean places with gas."
Letters Patent sealed.

FIRTH.
CRABTREE.
4th August 1856.

1839. JOSIAH FIRTH, of Heckmondwike, in the County of York, Carpet Manufacturer, and JOSEPH CRABTREE, of Mill Bridge, near Heckmondwike aforesaid, Machine Maker, for an invention for—"Weaving Scotch, Kidderminster, and Dutch carpets by means of a power-loom." *Letters Patent sealed.*

WOOD.
5th August 1856.

1840. HENRY WALKER WOOD, of Briton Ferry, Glamorganshire, Gentleman, for an invention for—"Further improvements in the manufacture of fuel, and for a new mode of preserving coal and coke and other fuel." *Letters Patent sealed.*

BOWEN.
5th August 1856.

1841. JAMES BENJAMIN BOWEN, of Chipping Norton, in the County of Oxford, for an invention for—"Improvements in the manufacture of gloves."
Provisional protection only.

VASSEROT.
5th August 1856.

1842. CHARLES FREDERIC VASSEROT, of the firm of Wells and Vasserot, of 45, Essex Street, Strand, London, Patent Agents, for an invention for—"Improvements in machinery for cutting nuts, screws, and pieces of polygonal shape."—*A communication from Nicolas Marchal, and Auguste Oger, of Epernay, in the Empire of France.* *Provisional protection only.*

MARPLES.
5th August 1856.

1843. THOMAS MARPLES, of Derby, in the County of Derby, Millstone Merchant, for an invention for—"Improvements in corn mills." *Provisional protection only.*

SISCO.
5th August 1856.

1844. ANTOINE DOMINIQUE SISCO, of Paris, in the Empire of France, Practical Engineer, for an invention for—"Improvements in railway breaks."
Letters Patent sealed.

SMITH.
SMITH.
5th August 1856.

1845. ANDREW SMITH, of Mauchline, in the County of Ayr, North Britain, Gentleman, and WILLIAM SMITH, of the same place, Gentleman, for an invention for—"Improvements in ruling or delineating ornamental figures."
Provisional protection only.

DANDURAN.
5th August 1856.

1846. JEAN JACQUES DANDURAN, Civil Engineer, of No. 13, Charlotte Street, Fitzroy Square, County of Middlesex, for an invention for—"An apparatus called the self-swimmer." *Letters Patent sealed.*

BLOMELEY.
5th August 1856.

1847. EDWIN BLOMELEY, of Fernhill Mill, Bury, in the County of Lancaster, Manufacturer, for an invention for—"Improvements in the manufacture of fabrics applicable to various purposes for which airproof and waterproof fabrics are usually employed." *Provisional protection only.*

KEITH.
5th August 1856.

1848. JOHN KEITH, of Eltham, in the County of Kent, Gentleman, for an invention for—"Improved machinery for making envelopes."—*A communication from the first and true Inventor.* *Letters Patent sealed.*

NEWTON.
5th August 1856.

1849. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"An improvement in primers for fire-arm cartridges."—*A communication.*
Letters Patent sealed.

PFALTZ.
5th August 1856.

1850. AUGUSTUS PFALTZ, of the State of Massachusetts, for an invention for—"A new and useful mode or process for making soap from rosin."—*Letters Patent sealed.*

MONNIER.
5th August 1856.

1851. JOSEPH AUGUSTE MONNIER, of Marseilles (Empire of France), for an invention for—"Improvements in transmitting motive-power."
Provisional protection only.

MITCHELL.
6th August 1856.

1852. ALFRED MITCHELL, of Liverpool, in the County Palatine of Lancaster, Commercial Agent, for an invention for—"Improvements in apparatus for exhibiting and distributing advertisements and for like purposes." *Provisional protection only.*

PALMER.
6th August 1856.

1853. GEORGE HOLWORTHY PALMER, of Adelaide Road, Haverstock Hill, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in furnaces for generating heat." *Provisional protection only.*

BORLAND. 6th August 1856.

1854. JOHN YUIL BORLAND, of Manchester, in the County of Lancaster, Machinist, for an invention for—"Improvements in machinery for preparing and spinning fibrous materials."—*Complete specification.* *Letters Patent sealed.*

WATT. 6th August 1856.

1855. WILLIAM WATT, of Belfast, in the County of Antrim, in Ireland, for an invention for—"Improvements in treating or preparing indian corn and other grain for fermentation and distillation." *Provisional protection only.*

EVANS. 6th August 1856.

1856. THOMAS EVANS, junior, of No. 2, Belmont Terrace, Lewisham Road, in the County of Kent, for an invention for—"Improvements in harness." *Letters Patent sealed.*

HALL. WYLDE. WAITE. 6th August 1856.

1857. WILLIAM HALL, of Birmingham, in the County of Warwick, Gentleman, ELISHA WYLDE, of the same place, Engineer, and WILLIAM WAITE, also of the same place, Engineer, for an invention for—"Improvements in steam-engines." *Letters Patent sealed.*

BRABY. 6th August 1856.

1858. JAMES BRABY, of the Borough Haymarket, Newington Causeway, in the County of Surrey, Wheelwright, for an invention for—"Improvements in sawing-machinery." *Provisional protection only.*

FARRAR. SPENCER. 6th August 1856.

1859. JAMES FARRAR, of Bury, in the County of Lancaster, Agent, and HENRY SPENCER, of Rochdale, in the same County, Agent, for an invention for—"Improvements in apparatus for regulating the pressure and flow of gaseous fluids." *Provisional protection only.*

WEBER. 7th August 1856.

1860. LIONEL WEBER, of Bellevue Hotel, Bruxelles, in the Kingdom of Belgium, for an invention for—"A combination applicable to keys of door locks to prevent their being opened by pliers or other instruments, from the outside." *Provisional protection only.*

GOLL. 7th August 1856.

1861. ALEXANDRE THÉODORE NICOLAS GOLL, of 57, Rue de Bretagne, Paris, in the Empire of France, and of 4, South Street, Finsbury, London, for an invention for—"An improved button." *Letters Patent sealed.*

GREEN. 7th August 1856.

1862. WILLIAM GREEN, of York Street, City Road, in the County of Middlesex, for an invention for—"Improvements in the manufacture or production of fabrics and surfaces in imitation of and as substitutes for leather for bookbinding and other uses, and in machinery or apparatus for effecting the same." *Provisional protection only.*

KING. 7th August 1856.

1863. SAMUEL KING, of Brighton, in the County of Sussex, for an invention for—"Improvements in spirit lamps." *Letters Patent sealed.*

DEFRIES. 7th August 1856.

1864. COLEMAN DEFRIES, of the firm of Jonas Defries and Sons, Houndsditch, for an invention for—"Improvements in the roof lamps of railway carriages." *Letters Patent sealed.*

WRIGHT. 7th August 1856.

1865. CHARLES WRIGHT, of 20 and 21, Green Street, Southwark, for an invention for—"Improvements in the preparation of lubricating materials." *Provisional protection only.*

DAVENPORT. 8th August 1856.

1866. ROBERT DAVENPORT, of No. 12, Jonathan Street, Vauxhall, in the County of Surrey, Potter, for an invention for—"Certain improvements in kilns for burning pottery, earthenware, china, porcelain, and similar substances, to enable them to consume their own smoke." *Provisional protection only.*

LEESE. 8th August 1856.

1867. JOSEPH LEESE, junior, of Manchester, in the County of Lancaster, Calico Printer, for an invention for—"Certain improvements in machinery used for printing calico and other fabrics." *Letters Patent sealed.*

WOODMAN. 8th August 1856.

1868. JOHN WOODMAN, of the City of Manchester, in the County of Lancaster, Engineer, for an invention for—"An improved telegraph insulator."—*Complete specification.* *Letters Patent sealed.*

AUSTEN. 8th August 1856.

1869. THOMAS AUSTEN, of Waltham Abbey, in the Parish of Waltham Holy Cross, in the County of Essex, Civil Engineer, for an invention for—"A machine for ascertaining the propelling force of gunpowder." *Letters Patent sealed.*

GORSE. 8th August 1856.

1870. WILLIAM GORSE, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"A new or improved door fastener."—*A communication.* *Letters Patent sealed.*

NEWTON. 8th August 1856.

1871. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in machinery for composing and distributing types."—*A communication.* *Letters Patent sealed.*

STEPHENS. 8th August 1856.

1872. JOHN STEPHENS, of Suffolk Place, in the City of Westminster, Esquire, for an invention for—"An improvement in pipes for smoking."—*Provisional protection only.*

FEHRMAN. 8th August 1856.

1873. DIEDERICH FEHRMAN, of Liverpool, in the County of Lancaster, for an invention for—"Improvements in lamps adapted for burning resin oil."—*A communication from Friedrich Benkler, of Wiesbaden.* *Letters Patent sealed; no specification filed.*

WEBSTER. 9th August 1856.

1874. WILLIAM WEBSTER, of 22, Bunhill Row, in the County of Middlesex, for an invention for—"An improved core box."—*A communication from Abner Van Horn, of New York.* *Provisional protection* NOT *granted.*

WEBSTER. 9th August 1856.

1875. WILLIAM WEBSTER, of 22, Bunhill Row, in the County of Middlesex, for an invention for—"An improved valve cock."—*A communication from Abner Van Horn, of New York.* *Letters Patent sealed.*

WHITTAKER. 9th August 1856.

1876. THOMAS WHITTAKER, of Accrington, in the County of Lancaster, Millwright, for an invention for—"Improvements in the mode or method of washing or cleansing woven fabrics." *Letters Patent sealed.*

KOPP. 9th August 1856.

1877. EMILE KOPP, of Paris, Professor of Chemistry, for an invention for—"Improvements in the manufacture of gas." *Provisional protection only.*

DARLINGTON. 9th August 1856.

1878. JOHN DARLINGTON, of No. 36, Cannon Street, in the City of London, for an invention for—"Improvements in superheating steam."—*A communication from Gustave Adolphe Hirn, of Colmar, Haut Rhin, in the Empire of France.* *Letters Patent sealed.*

AMYOT. 9th August 1856.

1879. EUGÈNE ERNEST AMYOT, Physician, of Paris, Town of the French Empire, for an invention for—"Improvements in the preparation of pulp for paper, pasteboard, and other uses for which pulp is required." *Provisional protection only.*

MARCH. 9th August 1856.

1880. CHAPMAN MARCH, of Alwalton Mills, in the County of Huntingdon, Miller, for an invention for—"Improvements in propelling and working ships and vessels." *Letters Patent sealed.*

REID. 9th August 1856.

1881. ARCHIBALD LOCKHART REID, of Glasgow, in the County of Lanark, North Britain, Print Cutter, for an invention for—"Improvements in producing ornamental figures or devices on textile fabrics and other surfaces." *Letters Patent sealed.*

OWEN. 9th August 1856.

1882. EDWARD OWEN, of Aberdeen Terrace, Blackheath, in the County of Kent, Chemist, for an invention for—"Improvements in the manufacture of gas and in the obtainment of products arising in such manufacture." *Letters Patent sealed.*

ANDERSON. 9th August 1856.

1883. GEORGE ANDERSON, of 22, Queen's Road, Dalston, in the County of Middlesex, Gas Engineer, for an invention for—"Improvements in the construction of taps or valves for regulating the passage of gas." *Letters Patent sealed.*

FONTAINEMOREAU. 11th August 1856.

1884. PETER ARMAND LE COMTE DE FONTAINEMOREAU, of 39, Rue de l'Echiquier, Paris, in the Empire of France, and 4, South Street, Finsbury, London, for an invention for—"A new electro-motive engine."—*A communication.* *Letters Patent sealed.*

CARTLAND. 11th August 1856.

1885. JOHN CARTLAND, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"A new or improved door spring." *Letters Patent sealed.*

SYMONS. BURGESS. 11th August 1856.

1886. ALEXANDER SYMONS, of George Street, Mansion House, in the City of London, and EDWARD BURGESS, of Clerkenwell Green, in the County of Middlesex, for an invention for—"Improvements in noctuaries or tell-tales for ascertaining the fidelity of watchmen and for other purposes, and in the application of electricity to such apparatus." *Provisional protection only.*

BROOMAN. 11th August 1856.

1887. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent Agent, for an invention for—"An improved fermenting agent."—*A communication.* *Letters Patent sealed.*

MAILLARD. 12th August 1856.

1888. NICHOLAS DORAN MAILLARD, of Dublin, for an invention for—"An improved mechanical and magnetic compass." *Letters Patent sealed.*

JANET.
12th August 1856.

1889. ARMAND RIEUPAYROUX JANET, of Perigueux, in the Department of Dordogne, France, Tailor, for an invention for—"A certain apparatus for taking measure of coats." *Provisional protection only.*

FIRTH.
12th August 1856.

1890. EDWIN FIRTH, of the firm of Edwin Firth and Sons, of Flush Mills, Heckmondwike, near Leeds, in the County of York, for an invention for—"Improvements in finishing mohair cloth." *Letters Patent sealed.*

DOWNING.
12th August 1856.

1891. JOSES WEAVER DOWNING, of Birmingham, in the County of Warwick, Metallic Bedstead Maker, for an invention for—"Improvements in the manufacture of metallic and other wheels and pulleys." *Provisional protection only.*

BROWN.
12th August 1856.

1892. WILLIAM HENRY BROWN, of Albion Iron and Steel Works, Sheffield, in the County of York, Iron and Steel Manufacturer, for an invention for—"Improvements in steam-hammers." *Provisional protection only.*

HARDAKER.
12th August 1856.

1893. JOHN HARDAKER, of Leeds, in the County of York, Commission Agent, for an invention for—"Improvements in machinery or apparatus for stopping railway trains, which are also applicable for alarm signals generally."—*Provisional protection only.*

LESSER.
13th August 1856.

1894. DAVID LESSER, of Manchester, in the County of Lancaster, Confectioner, for an invention for—"Certain improvements in machinery or apparatus for making 'lozenges' or other similar articles." *Letters Patent sealed.*

KAY.
13th August 1856.

1895. RICHARD DUGDALE KAY, of Accrington, in the County of Lancaster, Manufacturer, for an invention for—"Improvements in machinery or apparatus for washing, scouring, cleaning, preparing, dyeing, or finishing, woven fabrics, yarns, or threads."—*A communication.* *Letters Patent sealed.*

CHURCH.
HAMLYN.
13th August 1856.

1896. WILLIAM CHURCH, of Birmingham, in the County of Warwick, Engineer, and HENRY WHITING HAMLYN, of Birmingham aforesaid, Corn Factor, for an invention for—"An improved method or improved methods of constructing or building hay and other ricks." *Letters Patent sealed.*

CLARA.
13th August 1856.

1897. JEAN BAPTISTE CLARA, of 39, Rue de l'Echiquier, Paris, in the Empire of France, and 4, South Street, Finsbury, London, Civil Engineer, for an invention for—"Certain improvements in producing and employing steam and the gaseous products of combustion, for obtaining motive-power." *Letters Patent sealed.*

BROOMAN.
14th August 1856.

1898. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent Agent, for an invention for—"Improvements in the manufacture of artificial stone, and building and paving materials."—*A communication.* *Provisional protection only.*

HALLEN.
KINGSTON.
14th August 1856.

1899. EDWARD HALLEN, of Cornwall Road, Lambeth, in the County of Surrey, Civil Engineer, and WILLIAM HOLLAND KINGSTON, of Bandon, in the County of Cork, Ireland, A.B. Trinity College, Dublin, for an invention for—"Improved means for making signals on railways." *Letters Patent sealed.*

PRIEST.
WOOLNOUGH.
14th August 1856.

1900. ALFRED PRIEST, and WILLIAM WOOLNOUGH, of the Iron Works, Kingston-on-Thames, for an invention for—"Improvements in horse hoes." *Letters Patent sealed.*

KNOWLES.
CLARKE.
14th August 1856.

1901. JOHN KNOWLES, of Holcombe Brook, in the County of Lancaster, Manufacturer, and WILLIAM CLARKE, of Manchester, in the same County, Manufacturer, for an invention for—"Certain improvements in looms for weaving." *Letters Patent sealed.*

BILBE.
14th August 1856.

1902. THOMAS BILBE, of Nelson Dock, Rotherhithe, in the County of Surrey, Ship Builder, for an invention for—"Improvements in the construction of ships and other vessels." *Letters Patent sealed.*

MORGAN.
14th August 1856.

1903. WILLIAM MORGAN, of 48, Gloucester Terrace, Hyde Park, for an invention for—"Improvements in the manufacture of guns and mortars."—*Letters Patent sealed.*

BANNEHR.
14th August 1856.

1904. JAMES BANNEHR, of 11, Bedford Circus, in the City of Exeter, for an invention for—"Improvements in the manufacture of name and sign plates, boards, and slabs, door and house numbers, street names, tomb stones, and monumental slabs and inscriptions, by substituting earthenware or porcelain instead of the materials now in use for the above-named articles." *Provisional protection only.*

GODEFROY. 14th August 1856.

1905. PETER AUGUSTIN GODEFROY, of No. 3, King's Mead Cottages, New North Road, Islington, in the County of Middlesex, Operative Chemist, for an invention for—"An improved treatment of the matrix of rock, quartz, and all like substances, for the extraction of auriferous, argentiferous, and other metals contained therein." *Letters Patent sealed.*

GODDARD. HULME. 14th August 1856.

1906. JOHN GODDARD, of No. 29, Moss Row, Bagslate, near Rochdale, in the County of Lancaster, Cotton Carder, and GEORGE HULME, of No. 4, George Street, Rochdale, Machine Maker, for an invention for—"Improvements in carding-engines for the more speedy and effectual doffing or stripping of the cotton, woollen, silk, or other fibrous substances therefrom." *Letters Patent sealed; no specification filed.*

SMITH. 15th August 1856.

1907. JOHN BURNS SMITH, of the City of Manchester, Mill Manager, for an invention for—"Certain improvements in machinery for preparing, spinning, and twisting cotton and other fibrous substances." *Letters Patent sealed.*

HURRY. 15th August 1856.

1908. HENRY COLUMBUS HURRY, Civil Engineer, of Wolverhampton, in the County of Stafford, for an invention for—"Improvements in railway crossings." *Letters Patent sealed.*

JOWETT. 15th August 1856.

1909. HENRY ALFRED JOWETT, of Sawley, in the County of Derby, Engineer, for an invention for—"Improvements in rails and railway chairs, and in the construction of railways." *Provisional protection only.*

KIS-GERESD. 15th August 1856.

1910. Col. STEPHEN SZABÓ DE KIS-GERESD, now residing in Widnes, near Warrington, in the County of Lancaster, for an invention for—"Improvements in obtaining motive-power." *Provisional protection only.*

SKINNER. 15th August 1856.

1911. CHARLES RICHARD SKINNER, of St. John's, in the City of Worcester, Tanner and Currier, for an invention for—"Certain improvements in tanning and finishing off leather." *Provisional protection only.*

DUBS. EVANS. 15th August 1856.

1912. HENRY DUBS, of the Vulcan Foundry, Warrington, in the County of Lancaster, Engineer, and JOSIAH EVANS, of Haydock, in the same County, Engineer, for an invention for—"Improvements in effecting the consumption of smoke." *Provisional protection only.*

TRANTER. 16th August 1856.

1913. WILLIAM TRANTER, of Birmingham, in the County of Warwick, Gun Maker, for an invention for—"Improvements in fire-arms." *Letters Patent sealed.*

HARGREAVES. 16th August 1856.

1914. WILLIAM HARGREAVES, of Bradford, in the County of York, Machine Wool Comber, for an invention for—"Improvements in Collier's combing-machine in combing wool, hair, cotton, silk, flax, and other fibrous substances." *Letters Patent sealed.*

SLATER. WILLIAMS. WHITAKER. 16th August 1856.

1915. GEORGE SLATER, of Burnley, in the County of Lancaster, Manufacturer, and JOHN WILLIAMS, of the same place, Overlooker, and SEPTIMUS WHITAKER, of the same place, Mechanic, for an invention for—"Certain improvements in power-looms for weaving." *Provisional protection only.*

CHALMERS. 16th August 1856.

1916. DAVID CHALMERS, of the City of Manchester, in the County of Lancaster, Machinist, for an invention for—"Improvements in looms for weaving." *Letters Patent sealed.*

BROWN. BROWN. 16th August 1856.

1917. JOHN WEIR DRAPER BROWN, of Burrel's Hotel, London Bridge, and GEORGE GIBSON BROWN, of Deptford Dockyard, for an invention for—"Improvements in signal lanterns." *Letters Patent sealed.*

HODGKINSON. 16th August 1856.

1918. ALFRED HODGKINSON, of Springfield Bleach Works, Belfast, in the County of Antrim, in Ireland, for an invention for—"Improvements in bleaching, scouring, and cleansing plain and embroidered fabrics." *Provisional protection only.*

LILLEY. 16th August 1856.

1919. SAMUEL LILLEY, of Birmingham, in the County of Warwick, Engineer and Machinist, for an invention for—"Improvements in the manufacture of ships' iron work;—a part of which improvements is applicable to the manufacture of other articles in iron." *Letters Patent sealed.*

HOFFMANN. 16th August 1856.

1920. PHILIPPE PIERRE HOFFMANN, of Strasbourg, in the Empire of France, for an invention for—"An improved compound to be used for waterproofing fabrics, paper, leather, or other materials." *Letters Patent sealed.*

JOYEUX. 16th August 1856.

1921. LOUIS AUGUSTE JOYEUX, of Marseilles, Empire of France, for an invention for—"Improvements in obtaining motive-power." *Letters Patent sealed.*

RICHARDSON. 18th August 1856.

1922. THOMAS C. RICHARDSON, of the firm T. C. Richardson, Torassa, Balestrino, and Castellano, of No. 101, Drury Lane, County of Middlesex, for an invention for—"The process for procuring and manufacturing the sulpho-saccharate of simarubine." *Provisional protection only.*

SCOTT. 18th August 1856.

1923. THOMAS SCOTT, of Barnhill Workhouse, Glasgow, in the County of Lanark, North Britain, Mechanic, for an invention for—"Improvements in cooking." *Letters Patent sealed.*

TYTHERLEIGH. 18th August 1856.

1924. WILLIAM TYTHERLEIGH, of Birmingham, in the County of Warwick, Accountant Clerk, for an invention for—"A new or improved manufacture of rollers or cylinders for printing fabrics." *Letters Patent sealed.*

NEWTON. 18th August 1856.

1925. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improved machinery for cutting and finishing metal screws."—*A communication.* *Letters Patent sealed.*

CAMBRIDGE. 18th August 1856.

1926. WILLIAM COLBORNE CAMBRIDGE, of the City of Bristol, Engineer, for an invention for—"Improvements in the construction of portable railways." *Provisional protection only.*

NEWTON. 18th August 1856.

1927. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improved machinery for forging or working iron and other metals."—*A communication.* *Letters Patent sealed.*

STOPPORTON. 18th August 1856.

1928. JOHN STOPPORTON, of the Isle of Man, for an invention for—"Improvements in propelling vessels." *Letters Patent sealed.*

BROOMAN. 18th August 1856.

1929. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent Agent, for an invention for—"Improvements in stopping or retarding railway carriages and trains, and in preventing carriages running off the rails."—*A communication.* *Letters Patent sealed.*

HOW. 18th August 1856.

1930. ANDREW PEDDIE HOW, of Mark Lane, in the City of London, Engineer, for an invention for—"Improvements in pumps." *Letters Patent sealed.*

CHOUILLOU. 18th August 1856.

1931. CHARLES MARIE CHOUILLOU, Manufacturer, of Paris, in the French Empire, for an invention for—"Certain improvements in thinning or shaving tawed, tanned, or dressed skins." *Letters Patent sealed.*

LEACH. TURNER. TEMPEST. 19th August 1856.

1932. JAMES LEACH, WILLIAM TURNER, and JOHN TEMPEST, of Rochdale, in the County of Lancaster, for an invention for—"Improvements in rollers applicable to condensing and all other kinds of engines for carding wool, cotton, and other fibrous materials." *Letters Patent sealed.*

OSMAN. 19th August 1856.

1933. HENRY FORFAR OSMAN, of 33, Essex Street, Strand, London, County of Middlesex, Gentleman, for an invention for—"An improved electric clock."—*A communication.* *Letters Patent sealed.*

NOYER. 19th August 1856.

1934. PIERRE NOYER, of 38, Gerrard Street, Soho, for an invention for—"Winding up fusee watches and pocket chronometers, and setting the hands without key." *Letters Patent sealed.*

SUTTON. 19th August 1856.

1935. EDWIN SUTTON, of 204, Regent Street, in the County of Middlesex, Optician and Photographic Artist, for an invention for—"An improved construction of stereoscope." *Provisional protection only.*

BURDEN. 19th August 1856.

1936. HENRY BURDEN, of the City of Troy, County of Rensselair, and State of New York, in the United States of America, for an invention for—"Improvements in machinery or apparatus for manufacturing shoes for horses, mules, and other animals." *Letters Patent sealed.*

JOBSON. 19th August 1856.

1937. ROBERT JOBSON, of Wordsley, in the County of Stafford, Ironfounder, for an invention for—"Improvements in apparatus for pouring iron or other metal into moulds." *Letters Patent sealed.*

BESSEMER. 19th August 1856.

1938. HENRY BESSEMER, of Queen Street Place, New Cannon Street, in the City of London, for an invention for—"Improvements in the manufacture of iron and steel." *Letters Patent sealed.*

BROUARD. HUBERT. 19th August 1856.

1939. JOSEPH BROUARD, and JOSEPH HUBERT, of 39, Rue de l'Echiquier, Paris, in the Empire of France, and 4, South Street, Finsbury, London, for an invention for—"Certain improvements in reefing the sails of ships or vessels." *Letters Patent sealed.*

APPERLY. 19th August 1856.

1940. JAMES APPERLY, of Dudbridge, near Stroud, in the County of Gloucester, Cloth Manufacturer, for an invention for—"Improved machinery for carding wool or other similar fibrous substances." *Provisional protection only.*

NEWTON. 19th August 1856.

1941. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"An improvement in valves for steam-engines."—*A communication.* *Letters Patent sealed.*

DE DOGGENFELD. 19th August 1856.

1942. ANTHONY CHARLES VETTER DE DOGGENFELD, of Trinity Square, Brixton, in the County of Surrey, for an invention for—"Improved glass ornaments for ornamenting gardens, summer houses, dinner and other tables, and for other ornamental or decorative purposes." *Letters Patent sealed.*

JOHNSON. 20th August 1856.

1943. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in steam-engines."—*A communication from Narcisse Duvoir, of Liancourt, in the Empire of France, Mechanician.* *Letters Patent sealed.*

JOHNSON. 20th August 1856.

1944. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in roller fulling mills."—*A communication from Theodor Weide, of Chemnitz, and Ernest Pressprich, of Grossenham, both in the Kingdom of Saxony.* *Letters Patent sealed.*

SAGAR. TURNER. 20th August 1856.

1945. THOMAS SAGAR, of Burnley, in the County of Lancaster, Machine Maker, and CHRISTOPHER TURNER, of the same place, Machine Maker, for an invention for—"Certain improvements in power-looms for weaving." *Provisional protection only.*

CLARK. 20th August 1856.

1946. CHARLES CLARK, of Somerset Terrace, Albion Road, Stoke Newington, in the County of Middlesex, for an invention for—"Improvements in combining and arranging looking-glasses for toilet purposes." *Letters Patent sealed.*

GOSSAGE. 20th August 1856.

1947. WILLIAM GOSSAGE, of Widnes, in the County of Lancaster, Chemist, for an invention for—"Improvements in obtaining sulphur and metals from certain ores and other compounds of metals." *Provisional protection only.*

LALEMAN. 20th August 1856.

1948. JULES LALEMAN, of Lille, in the Empire of France, one of the members of the firm Canyn and Company, consisting of William Lenty, Widow Lenty, Victor Canyn, and Jules Laleman, for an invention for—"Improved machinery for combing flax and other similar fibrous materials."—*A communication.* *Letters Patent sealed.*

STONES. 20th August 1856.

1949. WILLIAM STONES, of Greenhithe, in the County of Kent, Paper Manufacturer, for an invention for—"Improved machinery for damping sheets of paper intended to be printed upon, so as to render the usual operation of wetting unnecessary." *Provisional protection only.*

MAUDSLAY. 20th August 1856.

1950. JOSEPH MAUDSLAY, of Lambeth, in the County of Surrey, Engineer, for an invention for—"Improvements in steam-engines especially applicable to screw propulsion." *Letters Patent sealed.*

HACKING. WHEELER. 21st August 1856.

1951. JOSEPH HACKING, of Clitheroe, in the County of Lancaster, Cotton Manufacturer, and WILLIAM WHEELER, of the same place, Gentleman, for an invention for—"Improvements in the mode or method of winding, warping, sizing, and beaming, cotton, woollen, linen, or other yarns or threads, and in the machinery or apparatus employed therein." *Letters Patent sealed.*

CROSSLEY. BOLTON. 21st August 1856.

1952. JOSEPH CROSSLEY, Carpet Manufacturer, of Halifax, in the County of York, and JAMES BOLTON, of the same place, Overlooker, for an invention for—"Improvements in apparatus or means employed in the printing of yarns for carpets and other fabrics." *Letters Patent sealed.*

AKROYD. THOMPSON. 21st August 1856.

1953. WILLIAM AKROYD, and JOHN THOMPSON, both of Halifax, in the County of York, Carpet Weavers, for an invention for—"The manufacture of carpets or other fabrics." *Letters Patent sealed.*

HEAP. SHARP. KNOWLES. 21st August 1856.

1954. WILLIAM HEAP, DEMUS SHARP, and GEORGE KNOWLES, all of Bradford, in the County of York, Engine Tenders, for an invention for—"Improvements in the construction of furnaces for economizing fuel and preventing smoke." *Provisional protection only.*

YORK. 21st August 1856.

1955. THOMAS YORK, of Wolverhampton, in the County of Stafford, Engineer, for an invention for—"A new or improved safety-valve and low water indicator for steam-boilers." *Letters Patent sealed.*

KENTON. 21st August 1856.

1956. ROBERT KENTON, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"A new or improved manufacture of fishing reels." *Letters Patent sealed.*

NEWTON. 21st August 1856.

1957. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in pumps for raising water."—*A communication from Monsieur Poujade, of Lyon.* *Provisional protection only.*

FARMER. 21st August 1856.

1958. GEORGE JAMES FARMER, of Birmingham, in the County of Warwick, Machinist, for an invention for—"Improvements in machinery to be used in the manufacture of chain links, buckles, buckle slides, rings, and other similar articles." *Letters Patent sealed.*

CHIPP. BITMEAD. 22nd August 1856.

1959. THOMAS JOHN CHIPP, and RICHARD BITMEAD, at present of Soho, in the County of Middlesex, for an invention for—"Improved apparatus for drilling and boring." *Letters Patent sealed.*

PATTEN. 22nd August 1856.

1960. WILLIAM PATTEN, of 22, Old Fish Street, Doctors' Commons, for an invention for—"An improvement in apparatus for supplying water to the basins of waterclosets and other vessels." *Provisional protection only.*

GARDISSAL. 22nd August 1856.

1961. CHARLES DURAND GARDISSAL, of 10, Bedford Street, Strand, London, and of 29, Boulevart St. Martin, Paris, Patent Agent, for an invention for—"A new or improved rotary engine."—*A communication.* *Provisional protection only.*

NEWTON. 22nd August 1856.

1962. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improved machinery for cutting chenille."—*A communication from Messrs. Cadinot & Chenneviere, of Elbeuf, in the Empire of France.* *Letters Patent sealed.*

JAY. SMITH. 22nd August 1856.

1963. SAMUEL JAY, and GEORGE SMITH, both of No. 246, Regent Street, in the County of Middlesex, for an invention for—"Improvements in ornamenting or trimming articles of outer attire, such as dresses, mantles, bonnets, and the like." *Provisional protection only.*

GATTY. 23rd August 1856.

1964. FREDERICK ALBERT GATTY, of Accrington, in the County of Lancaster, Manufacturing Chemist, for an invention for—"Certain improvements in dyeing." *Letters Patent sealed.*

BENOIST. 23rd August 1856.

1965. PHILIPPE BENOIST, of No. 7, Rue de Lancry, in the City of Paris, in the Empire of France, for an invention for—"An improvement in the construction of stereoscopes." *Provisional protection only.*

HALLEN. 23rd August 1856.

1966. EDWARD HALLEN, of Cornwall Road, Lambeth, in the County of Surrey, Civil Engineer, for an invention for—"Improved means for washing wool." *Letters Patent sealed.*

JOHNSON. 23rd August 1856.

1967. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in stocking-looms."—*A communication from Joseph Nicolas Brocard, of Troyes, in the Empire of France.* *Letters Patent sealed.*

JOHNSON. 23rd August 1856.

1968. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in casting metals."—*A communication from Messrs. Jackson Brothers, Petin, Gaudet, & Company, of Rive de Gier, in the Empire of France, Iron Manufacturers.* *Provisional protection only.*

RACSTER. 23rd August 1856.

1969. WILLIAM RACSTER, of 28, Francis Street, Woolwich, for an invention for—"Improvements in apparatus for regulating the supply of gas."—*Letters Patent sealed.*

STERLINGUE. 23rd August 1856.

1970. ETIENNE STERLINGUE, Manufacturer, of Paris, Town in the French Empire, for an invention for—"Improvements in preparing for tanning and in tanning hides and skins." *Letters Patent sealed.*

MOSES. 23rd August 1856.

1971. ALEXANDER MOSES, of Cannon Street Road East, in the County of Middlesex, Brazier, for an invention for—"Improved machinery for propelling vessels on water." *Letters Patent sealed; no specification filed.*

FARMER. 23rd August 1856.

1972. GEORGE JAMES FARMER, of Birmingham, in the County of Warwick, Machinist, for an invention for—"Improvements in hardening iron and steel." *Letters Patent sealed.*

WADSWORTH. 23rd August 1856.

1973. JAMES WADSWORTH, of Hazelgrove, near Stockport, in the County of Chester, Machine Maker, for an invention for—"Improvements in the ventilation of mines, and in removing noxious gases or vapours from places in which they accumulate or are generated, and in machinery or apparatus applicable to and to be used for such purposes." *Letters Patent sealed.*

STOCKS. 23rd August 1856.

1974. SAMUEL STOCKS, of Collins Green, near Warrington, in the County of Lancaster, for an invention for—"Improvements in reaping-machines." *Provisional protection only.*

DICKIE. 25th August 1856.

1975. HUGH DICKIE, of Girvan, in the County of Ayr, North Britain, Engineer, for an invention for—"Improvements in machinery or apparatus for cutting or shaping wood or other substances." *Provisional protection only.*

MENNONS. 25th August 1856.

1976. MARC ANTOINE FRANÇOIS MENNONS, of 21, Rue Napoleon, Montmartre (Dept. de la Seine), in the Empire of France, for an invention for—"A new composition applicable to the coating or covering of metallic and non-metallic surfaces."—*A communication.* *Letters Patent sealed.*

WEBB. 25th August 1856.

1977. WILLIAM WEBB, of Wilson Street, in the County of Middlesex, Upholsterer, for an invention for—"An improvement in reclining chairs." *Letters Patent sealed.*

BARRAT. BARRAT. 25th August 1856.

1978. PIERRE PHILIPPE CELESTIN BARRAT, and JEAN BAPTISTE BARRAT, of Paris, in the French Empire, Doctors, for an invention for—"Improvements in steam digging apparatus suitable for draining and excavating purposes, parts of which are applicable to reaping." *Provisional protection only.*

MARPLES. 25th August 1856.

1979. THOMAS MARPLES, of Derby, in the County of Derby, Millstone Merchant, for an invention for—"Improvements in corn mills." *Provisional protection only.*

PLUMMER. 25th August 1856.

1980. WILLIAM FREDERICK PLUMMER, of St. Mary's Overy Wharf, in the Borough of Southwark, Mechanist, for an invention for—"Improved apparatus applicable to the grinding of grain and other substances."—*Provisional protection only.*

BESSEMER. 25th August 1856.

1981. HENRY BESSEMER, of Queen Street Place, New Cannon Street, in the City of London, for an invention for—"Improvements in the manufacture of iron and steel." *Letters Patent sealed.*

WARRINER. 25th August 1856.

1982. GEORGE WARRINER, of Withernsea, in the County of York, Operative Chemist, for an invention for—"Improvements in compounds for preserving, deodorizing, and fertilizing." *Letters Patent sealed.*

PERRY. 26th August 1856.

1983. JOHN PERRY, of No. 14, Great Portland Street, in the County of Middlesex, Artist, for an invention for—"Improvements in photography."—*Letters Patent sealed.*

PERKIN. 26th August 1856.

1984. WILLIAM HENRY PERKIN, of King David Fort, in the Parish of Saint George in the East, in the County of Middlesex, Chemist, for an invention for—"Producing a new colouring matter for dyeing with a lilac or purple colour stuffs of silk, cotton, wool, or other materials." *Letters Patent sealed.*

BUSH. HEWITT. 26th August 1856.

1985. WILLIAM FREDERICK BUSH, of the City and County of Bristol, Millwright, and WILLIAM HEWITT, of the same place, Gentleman, for an invention for—"Improvements in machinery or apparatus for grinding grain."—*Letters Patent sealed.*

HORTON. HORTON. 26th August 1856.

1986. JOSHUA HORTON, of Birmingham, in the County of Warwick, Manufacturer, and THOMAS HORTON, of Birmingham aforesaid, Manufacturer, for an invention for—"An improvement or improvements in the manufacture of paper, pasteboard, and pulp." *Provisional protection only.*

CAREY.
26th August 1856.

1987. CHARLES CAREY, of the Parade, Harleyford Road, Vauxhall, for an invention for—"Improvements in shower-baths." *Letters Patent sealed.*

COWPER.
26th August 1856.

1988. EDWARD ALFRED COWPER, of Great George Street, Westminster, Civil Engineer, for an invention for—"An improvement in the manufacture of candles." *Letters Patent sealed.*

EARL OF CAITHNESS
26th August 1856.

1989. JAMES EARL OF CAITHNESS, of Barrogill Castle, in the County of Caithness, North Britain, for an invention for—"Improvements in cutting or shaping stone and other substances." *Letters Patent sealed.*

SIMPSON.
26th August 1856.

1990. EDMUND SIMPSON, of Preston, in the County of Lancaster, Manufacturer of Gold Thread, for an invention for—"An improved safety cage for mines and pits, or apparatus to be fitted to cages to prevent accidents from the falling thereof." *Letters Patent sealed.*

VIVIAN.
26th August 1856.

1991. RICHARD WILLIAM VIVIAN, of the Town of Camborne, in the County of Cornwall, Assayer, for an invention for—"Economizing the consumption of fuel." *Provisional protection only.*

NEWTON.
26th August 1856.

1992. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"An improvement in breech-loading cannons and other ordnance."—*A communication.* *Letters Patent sealed.*

JAY.
SMITH.
26th August 1856.

1993. SAMUEL JAY, and GEORGE SMITH, both of No. 246, Regent Street, in the County of Middlesex, for an invention for—"An improved facing or covering to be attached to the outside of ladies' dresses, mantles, or other articles of attire, peculiarly adapted for the warmth and protection of the chest." *Provisional protection only.*

HORRIE.
SCHOFIELD.
27th August 1856.

1994. LOUIS HORRIE, of Keighley, in the County of York, and JAMES SCHOFIELD, of Rochdale, in the County of Lancaster, Grease and Manure Manufacturers, for an invention for—"Improvements in the mode or method of extracting oil and grease separately from suds used in washing flannel and other woollen goods, for distilling the said grease or other fatty matters, and in the apparatus employed therein." *Provisional protection only.*

GIRESSE.
27th August 1856.

1995. JOSEPH MANUEL GIRESSE, of St. Macaire, in the Département of the Gironde, in the French Empire, for an invention for—"A new machine to mince tallow and meat." *Provisional protection only.*

MOORE.
MOORE.
27th August 1856.

1996. JOHN MOORE, of Aston, near Birmingham, in the County of Warwick, Manufacturer, and WILLIAM MOORE, of Aston, near Birmingham aforesaid, Manufacture, for an invention for—"A new or improved tap or stop cock." *Provisional protection only.*

LEES.
27th August 1856.

1997. THOMAS LEES, of Stockport, in the County of Chester, Machinist, for an invention for—"Improvements in lubricating parts of steam-engines, and in apparatus and machinery to be applied for that purpose." *Letters Patent sealed.*

ROBERTS.
27th August 1856.

1998. SAMUEL ROBERTS, of Hull, for an invention for—"Improvements in regulating the supply of steam to engines working screw or submerged propellers, and in regulating or relieving the pressure of steam on slide valves."—*Provisional protection only.*

NEWTON.
27th August 1856.

1999. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"An improvement in projectiles for cannon."—*A communication.* *Letters Patent sealed.*

NEWTON.
27th August 1856.

2000. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improved machinery for combing fibrous substances."—*A communication.* *Letters Patent sealed.*

COLBECK.
27th August 1856.

2001. ISRAEL COLBECK, of Batley, in the County of York, Machine Maker, for an invention for—"Improvements in machinery for tearing rags, adapted particularly for shoddy or artificial wool." *Provisional protection only.*

GREEN.
HOLLOWAY.
GRUBB.
27th August 1856.

2002. WILLIAM GREEN, GEORGE HOLLOWAY, and THOMAS GRUBB, Rug Manufacturers, all of Kidderminster, in the County of Worcester, for an invention for—"Improvements in the manufacture of rugs." *Provisional protection only.*

GARDISSAL. 28th August 1856.

2003. CHARLES DURAND GARDISSAL, of 10, Bedford Street, Strand, London, and of 29, Boulevart St. Martin, Paris, Patent Agent, for an invention for—"A mode of treating and preparing sea weeds or marine plants for manure."—*A communication.* *Letters Patent sealed.*

GARDISSAL. 28th August 1856.

2004. CHARLES DURAND GARDISSAL, of 10, Bedford Street, Strand, London, and of 29, Boulevart St. Martin, Paris, Patent Agent, for an invention for—"A new manufacture of artificial fuel."—*A communication.* *Letters Patent sealed.*

BROOMAN. 28th August 1856.

2005. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent Agent, for an invention for—"Improvements in shuttles."—*A communication.* *Letters Patent sealed.*

GRAUTOFF. ALBRECHT. 28th August 1856.

2006. BERNARD AUGUSTUS GRAUTOFF, and CHARLES HENRY WILLIAM ALBRECHT, both of Lime Street Square, in the City of London, Merchants, for an invention for—"Improvements in the construction of pressure and vacuum gauges."—*A communication.* *Letters Patent sealed.*

WATSON. 28th August 1856.

2007. THOMAS WATSON, of the firm of Gerardin & Watson, of Poland Street, in the County of Middlesex, Pewterers, for an invention for—"An improved beer-engine lever or lifter, and apparatus for fitting the same to counters." *Letters Patent sealed.*

HEILMANN. 28th August 1856.

2008. CAESAR HEILMANN, of 22½, Milk Street, Cheapside, London, Engineer, for an invention for—"Improvements in furnaces of steam-boilers." *Provisional protection only.*

FEAUVEAU. LEGRAND. 28th August 1856.

2009. JEAN BAPTISTE FEAUVEAU, and LOUIS ALEXANDER LEGRAND, both of Brussels, Kingdom of Belgium, for an invention for—"An improved apparatus for the purification and the combustion of gas." *Letters Patent sealed.*

AVERY. 29th August 1856.

2010. JOHN AVERY, of the Patent Office, 32, Essex Street, Strand, London, but at present residing in Paris, for an invention for—"Improvements in bellows."—*A communication from Chardon & Co., of Lyons, in the Empire of France.* *Provisional protection only.*

POITIERS. 29th August 1856.

2011. EDWARD POITIERS, of No. 12, Maldon Terrace, Haverstock Hill, in the County of Middlesex, for an invention for—"The application of a new material or materials for the manufacture of brooms and brushes in general and for other purposes, and for improvements in the manufacture of street scavengers' and other brooms and brushes."—*Complete specification.* *Letters Patent sealed.*

SEES. 29th August 1856.

2012. JOHN RANDOLPH SEES, of the City of New York, in the United States of America, Mechanical Engineer, for an invention for—"Improved apparatus for heating the feed water of steam-boilers." *Letters Patent sealed.*

BROWN. 29th August 1856.

2013. JOHN BROWN, of Pendleton, in the County of Lancaster, Surgeon, for an invention for—"Improvements in swinging hammocks, and in the construction of bedsteads or couches, and in apparatus connected therewith." *Letters Patent sealed.*

FLETCHER. FLETCHER. 30th August 1856.

2014. JOHN FLETCHER, of Salford, in the County of Lancaster, Ironfounder, and WILLIAM FLETCHER, of the same place, Millwright, for an invention for—"Certain improvements in the construction of weighing cranes or other similar elevating machines." *Letters Patent sealed.*

JOHNSON. 30th August 1856.

2015. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in fire-arms."—*A communication from James Edwin Halsey, of the City of New York, in the United States of America.* *Letters Patent sealed.*

BLAKE. MAXWELL. 30th August 1856.

2016. JAMES BLAKE, and FRANCIS MAXWELL, both of Kitchen Street, Liverpool, in the County of Lancaster, Soap Manufacturers, for an invention for—"Improvements in the manufacture of soap."—*A communication.* *Letters Patent sealed.*

HERBELOT. 30th August 1856.

2017. ARMAND LOUIS ANDRÉ HERBELOT, Mechanician, of the Town of Paris, in the French Empire, for an invention for—"Improvements in obtaining motive-power by gases or fluids." *Provisional protection only.*

LONG. 30th August 1856.

2018. FRANÇOIS LONG, of Paris, in the Empire of France, for an invention for—"Improvements in life boats." *Provisional protection only.*

POPE. 30th August 1856.

2019. JOHN POPE, of the City of Canterbury, County of Kent, for an invention for—"Improvements in the mode of cultivating and treating the hop plant." *Provisional protection only.*

GOODYEAR. 30th August 1856.

2020. CHARLES GOODYEAR, of Leicester Square, in the County of Middlesex, for an invention for—"An improvement in combining gutta-percha and asphalt or pitch." *Letters Patent sealed.*

CONANT. 30th August 1856.

2021. HEZEKIAH CONANT, of the State of Connecticut, of the United States of America, for an invention for—"A new and useful improvement in fire-arms." *Letters Patent sealed.*

SUTTON. 30th August 1856.

2022. DANIEL SUTTON, of Banbury, Brewer, for an invention for—"An improvement in the manufacture of cast iron cooking kettles and such like hollow ware." *Provisional protection only.*

GREGORY. 30th August 1856.

2023. JOHN GREGORY, of Nelson Square, in the County of Surrey, for an invention for—"An improved fish joint or method of connecting rails."—*Letters Patent sealed.*

BOWER. PEYTON. DOWNING. 30th August 1856.

2024. MANOAH BOWER, of Birmingham, in the County of Warwick, Manufacturer, and RICHARD PEYTON, of Birmingham aforesaid, Manufacturer, and JOSES WEAVER DOWNING, of Birmingham aforesaid, Metallic Bedstead Maker, for an invention for—"Improvements in metallic bedsteads, cots, couches, and other such like articles." *Letters Patent sealed.*

HAMILTON. 1st September 1856.

2025. GEORGE HAMILTON, of Blackland Mill, Paisley, in the County of Renfrew, North Britain, Bleacher, for an invention for—"Improvements in the treatment or finishing of textile fabrics." *Provisional protection only.*

BOWRA. 1st September 1856.

2026. MATTHIAS EDWARD BOWRA, of 63, Basinghall Street, in the City of London, for an invention for—"Improvements in the laying or placing of rails or chairs for railway and other purposes, in the shape of beds or springs or elastic sleepers." *Letters Patent sealed.*

HAWKINS. 1st September 1856.

2027. THOMAS PINFOLD HAWKINS, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"A new or improved manufacture of wire chain." *Letters Patent sealed.*

FOURNIER. 1st September 1856.

2028. BENOIST AMÉDÉE FOURNIER, of Paris, in the Empire of France, Practical Engineer, for an invention for—"Improvements in preventing the dashing of railway trains against one another either when running in contrary direction or in the same way." *Provisional protection* NOT *granted.*

NORRIS. 1st September 1856.

2029. RICHARD HILL NORRIS, M.D., of 46, Stafford Street, Birmingham, in the County of Warwick, for an invention for—"Certain improvements in photography by the use of collodion in a dry condition, and for a means of transferring photographic films." *Letters Patent sealed.*

NEWTON. 1st September 1856.

2030. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"An improved charger for shot pouches."—*A communication.* *Letters Patent sealed.*

MONCKTON. 1st September 1856.

2031. EDWARD HENRY CRADOCK MONCKTON, of the Bengal Civil Service, and of 77, Chancery Lane, in the County of Middlesex, for an invention for—"Improvements in blast furnaces for smelting ores." *Provisional protection only.*

LEVICK. 1st September 1856.

2032. FREDERICK LEVICK, junior, of Crom Celyn and Blaina Iron Works, in the County of Monmouth, Iron Master, for an invention for—"Improvements in the construction and working of blast furnaces for the smelting or making of iron." *Provisional protection only.*

MAGNUS. 1st September 1856.

2033. LAZARUS SIMON MAGNUS, of No. 3, Adelaide Chambers, in the City of London, for an invention for—"Improvements in the manufacture of coke."—*A communication.—Complete specification.* *Letters Patent sealed.*

ARON. 2nd September 1856.

2034. MAURICE ARON, of No. 39, Rue de l'Echiquier, Paris, in the Empire of France, and of 4, South Street, Finsbury, London, Gentleman, for an invention for—"An improved leaven." *Provisional protection only.*

ARCHER. 2nd September 1856.

2035. AMBROSE ARCHER, of Old Swan, near Liverpool, in the County of Lancaster, Corn Factor, for an invention for—"Improvements in the manufacture or preparing for use 'Founders' charcoal,' 'Blacking,' 'Coal dust,' 'Loam,' and 'Facing sand.'" *Provisional protection only.*

BATE.
2nd September 1856.

2036. JOHN BATE, of Birmingham, in the County of Warwick, Gentleman, for an invention for—"Improvements in folios, clips, or files, for holding letters, invoices, and other documents." *Provisional protection only.*

APPERLY.
2nd September 1856.

2037. JAMES APPERLY, of Dudbridge, near Stroud, in the County of Gloucester, Cloth Manufacturer, for an invention for—"Certain improvements in the process of preparing cotton, wool, flax, and other fibrous substances for spinning, and in carding and preparing machinery." *Letters Patent sealed*

GUYET.
2nd September 1856.

2038. PIERRE JOSEPH GUYET, Engineer, of Paris, Town in the French Empire, for an invention for—"An improved method of stopping or retarding railway carriages and trains, and of warming the interior thereof." *Letters Patent sealed.*

THOMAS.
3rd September 1856.

2039. GEORGE CUMMING THOMAS, of Washington City, United States of America, but now of 67, Gracechurch Street, in the City of London, for an invention for—"An improved method of making steel."—*A communication from Horace Vaughn, of Providence, Rhode Island.* *Letters Patent sealed.*

LAMB.
3rd September 1856.

2040. JOSEPH LAMB, of Manchester, in the County of Lancaster, Spindle and Flyer Maker, for an invention for—"Certain improvements in machinery or apparatus for preparing, slubbing, and roving cotton and other fibrous substances." *Letters Patent sealed.*

JOBARD.
3rd September 1856.

2041. JEAN BAPTISTE MARCELIN JOBARD, Directeur du Musée de l'Industrie Belge, à Bruxelles, for an invention for—"Improvements in the manufacture of lamps." *Letters Patent sealed.*

HALLEN.
HALLEN.
3rd September 1856.

2042. SAMUEL HALLEN, and EDWARD HALLEN, both of Cornwall Road, Lambeth, in the County of Surrey, for an invention for—"Improvements in rolling metallic substances." *Provisional protection only.*

METCALF.
3rd September 1856.

2043. JOHN METCALF, of Newton Heath, near Manchester, in the County of Lancaster, Manufacturing Chemist, for an invention for—"Improvements in the manufacture and treatment of tar oil, for dissolving india-rubber, gutta-percha, gums, and gum resins, and also in deodorizing all fabrics, wood, or any article impregnated with tar oil or the products from coal tar." *Provisional protection only.*

CORNIDES.
3rd September 1856.

2044. LOUIS CORNIDES, of No. 4, Trafalgar Square (Office for Patents), Charing Cross, in the County of Middlesex, for an invention for—"A new method of dressing or preparing hides, skins, intestines, and such like animal substances." *Letters Patent sealed.*

GHIDIGLIA.
TURLETTI.
3rd September 1856.

2045. SIMON GHIDIGLIA, and LOUIS TURLETTI, of 39, Rue de l'Echiquier, Paris, in the Empire of France, and 4, South Street, Finsbury, London, for an invention for—"An improved buckle." *Letters Patent sealed.*

SPILLER.
3rd September 1856.

2046. EDMUND PIM SPILLER, of Holborn Hill, in the City of London, Manufacturer, for an invention for—"Improvements in the construction of chamber lamps." *Letters Patent sealed.*

ROBERTS.
3rd September 1856.

2047. JOHN ROBERTS, of Upnor, in the County of Kent, Terra Cotta Manufacturer, for an invention for—"An improvement in the stoppering or closing of jars, bottles, and other vessels;—applicable also to the joining of earthenware and other pipes." *Provisional protection only.*

MOZARD.
3rd September 1856.

2048. JULES MOZARD, of 6, Dufour Place, Golden Square, in the County of Middlesex, for an invention for—"Improvements in the construction of miners' lamps." *Letters Patent sealed.*

PICKEN.
4th September 1856.

2049. JAMES PICKEN, of Dunlop, in the County of Ayr, North Britain, Millwright, for an invention for—"Improvements in the arrangement of the feed apparatus of machines for thrashing or separating grain." *Letters Patent sealed.*

BISHTON.
4th September 1856.

2050. WILLIAM BISHTON, of Wolverhampton, in the County of Stafford, Timber Merchant, for an invention for—"An improvement or improvements in boats for inland navigation." *Provisional protection only.*

MORRISON.
AMPHLET.
4th September 1856.

2051. JOHN MORRISON, of Birmingham, in the County of Warwick, Machinist, and SAMUEL AMPHLET, of Birmingham aforesaid, Manufacturer, for an invention for—"A new or improved fastening for belts, bands, and other such like articles." *Letters Patent sealed.*

DUMÉRY.
4th September 1856.

2052. CONSTANT JOUFFROY DUMÉRY, of Paris, in the Empire of France, Civil Engineer, for an invention for—"Improvements in steam-engines."—*Letters Patent sealed.*

HART.
4th September 1856.

2053. JOEL TANNER HART, of Lexington, Kentucky, in the United States of America, now of 67, Gracechurch Street, London, Sculptor, for an invention for—"Improvements in apparatus for modelling statuary from life, and for measuring and copying statuary and other uneven surfaces." *Letters Patent sealed.*

LEIGH.
LEIGH.
4th September 1856.

2054. EVAN LEIGH, of the City of Manchester, in the County of Lancaster, Mechanical Engineer, and GEORGE PETER LEIGH, of the same place, Manager, for an invention for—"Improvements in parts of machinery or apparatus used in preparing and spinning cotton and other fibrous substances." *Letters Patent sealed.*

LEWIS.
4th September 1856.

2055. GEORGE ALFRED LEWIS, of Bristol, Somerset, for an invention for—"Disconnecting and raising screw-propellers." *Letters Patent sealed.*

ROY.
HALL.
BINNS.
4th September 1856.

2056. EUGÈNE ARMAND ROY, JOHN ARCHIBALD HALL, and WILLIAM THOMAS BINNS, all of Camden Town, in the County of Middlesex, for an invention for—"An improved means of ensuring draught in smoke flues or chimneys." *Letters Patent sealed.*

KEATES.
4th September 1856.

2057. WILLIAM KEATES, of Liverpool, in the County of Lancaster, Copper and Lead Smelter, for an invention for—"Improvements in the process of reducing copper to the metallic state, from ores and other materials containing copper, and in the furnaces employed therein." *Letters Patent sealed.*

ANDERSON.
4th September 1856.

2058. GEORGE ANDERSON, of Queen's Road, Dalston, in the County of Middlesex, Gas Engineer, for an invention for—"Improvements in the combustion of tar and other similar matters in heating gas retorts, and in the consumption of smoke arising therefrom and from other fuels used therewith." *Letters Patent sealed.*

HAYES.
4th September 1856.

2059. JOHN MONTAGU HAYES, of Southsea, in the County of Hampshire, Captain R.N., for an invention for—"An improvement in the construction of cartridges for fire-arms." *Letters Patent sealed.*

MOBERLY.
4th September 1856.

2060. WILLIAM MOBERLY, of Ravenhead, near St. Helen's, in the County of Lancaster, Gentleman, for an invention for—"Improvements in the grinding and polishing of curved and rounded surfaces."—*A communication. Letters Patent sealed.*

TABBERNER.
4th September 1856.

2061. JOHN LOUDE TABBERNER, of No. 4, Trafalgar Square (Office for Patents), Charing Cross, in the County of Middlesex, for an invention for—"Certain improvements in smelting ores." *Letters Patent sealed.*

EARL OF ALDBOROUGH.
4th September 1856.

2062. BENJAMIN O'NEALE STRATFORD, EARL OF ALDBOROUGH, of Stratford Lodge, in the County of Wicklow, in Ireland, for an invention for—"Improvements in aërial navigation, and in the apparatus connected therewith, parts of which are applicable to locomotion generally." *Letters Patent sealed.*

BROOMAN.
4th September 1856.

2063. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent Agent, for an invention for—"Improvements in the construction of buildings and parts of buildings."—*A communication from Messrs. Charpentier, Brothers. Letters Patent sealed.*

DANCER.
5th September 1856.

2064. JOHN BENJAMIN DANCER, of the City of Manchester, in the County Palatine of Lancaster, Optician, for an invention for—"Improvements in photographic cameras and in the apparatus connected therewith." *Letters Patent sealed.*

MONCKTON.
CLARK.
5th September 1856.

2065. HENRY EDWARD CRADOCK MONCKTON, of the Parthenon Club, Regent Street, in the County of Middlesex, WILLIAM CLARK, of Upper Place, Islington, in the County of Middlesex, for an invention for—"Improvements in machinery or apparatus for tilling or cultivating the soil." *Letters Patent sealed.*

JOHNSON.
5th September 1856.

2066. JOHN JOHNSON, of Single Street, Mile End, London, Colour Manufacturer, for an invention for—"Improvements in railway carriages." *Letters Patent sealed.*

DUCHATEAU.
5th September 1856.

2067. ALEXIS EUGÈNE DUCHATEAU, of Paris, in the Empire of France, and of 45, Essex Street, Strand, London, for an invention for—"Improvements in stamp presses and stamps used therewith." *Provisional protection only.*

MITCHELL.
GÄRTNER.
5th September 1856.

2068. WILLIAM SMITH MITCHELL, of Cornhill, in the City of London, and CHARLES MARTIN ERNEST GÄRTNER, of Lower Ashby Street, Northampton Square, in the County of Middlesex, Watchmakers, for an invention for—"Improvements in the construction of watches." *Letters Patent sealed.*

REEDER.
5th September 1856.

2069. RALPH REEDER, of Cincinnati, in the State of Ohio, United States of America, for an invention for—"An improved universal dial and chronometer compass." *Letters Patent sealed.*

WILSON.
5th September 1856.

2070. ROBERT WILSON, of Patricroft, in the County of Lancaster, Engineer, for an invention for—"Improvements in valves and in apparatus connected therewith." *Letters Patent sealed.*

BURSTALL.
5th September 1856.

2071. THOMAS BURSTALL, of Southall, in the County of Middlesex, Civil Engineer, for an invention for—"Certain improved machinery for manufacturing bricks and tiles from clay, alone or mixed with other materials." *Provisional protection only.*

JOHNSTON.
5th September 1856.

2072. JOHN JOHNSTON, of Ohio, in the United States of America, and of No. 4, Trafalgar Square (Office for Patents), Charing Cross, in the County of Middlesex, for an invention for—"Improvements in photographic plates."—*A communication.* *Letters Patent sealed.*

HELRIGEL.
5th September 1856.

2073. CHARLES LOUIS FREDERICK HELRIGEL, of Great James Street, Bedford Row, in the County of Middlesex, for an invention for—"Improvements in lithographic printing presses." *Provisional protection only.*

DYER.
DYER.
6th September 1856.

2074. HENRY DYER, of Plaistow, in the County of Essex, Engineer, and GEORGE DYER, of Gracechurch Street, in the City of London, Jeweller, for an invention for—"Improvements in freeing textile fabrics, cotton waste, and fibrous matters, from oily and other impurities." *Provisional protection only.*

ANELLI.
6th September 1856.

2075. JOSEPH ANELLI, of No. 2, Talbot Villas, Paddington, in the County of Middlesex, for an invention for—"A crampon to prevent horses slipping in frosty weather." *Provisional protection only.*

PARK.
ELLS.
6th September 1856.

2076. SIDNEY WESLEY PARK, and EDGAR STIMPSON ELLS, both of the City of Troy, in the State of New York, United States of America, for an invention for—"Improvements in machinery for knitting tubular ribbed fabrics." *Letters Patent sealed.*

JUCKES.
6th September 1856.

2077. JOHN JUCKES, of Dame Street, Islington, for an invention for—"Improvements in stoves or fireplaces." *Provisional protection only.*

HARDING.
6th September 1856.

2078. GUSTAVUS PALMER HARDING, of Kingsland, in the County of Middlesex, Warehouseman, for an invention for—"Improvements in the manufacture of hats and other coverings for the head, and of parts thereof."—*Provisional protection only.*

WRIGHT.
6th September 1856.

2079. PETER WRIGHT, of Dudley, in the County of Worcester, Vice and Anvil Manufacturer, for an invention for—"An improvement in the manufacture of anvils." *Provisional protection only.*

NEWTON.
6th September 1856.

2080. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improved machinery for cutting round files."—*A communication.* *Letters Patent sealed.*

LAPITO.
6th September 1856.

2081. CHARLES LOUIS LAPITO, of No. 75, Faubourg Poissonnier, Paris, at present residing at No. 2, High Street, Marylebone, Manufacturer of Mortar and Concrete, for an invention for—"A machine for manufacturing of mortar and concrete." *Letters Patent sealed.*

WILKENS.
6th September 1856.

2082. WILLIAM WILKENS, of Baltimore, State of Maryland, United States of America, Manufacturer, for an invention for—"Revolving cylinder battery or cannon and apparatus connected therewith."—*A communication.* *Provisional protection only.*

FONTAINEMOREAU.
6th September 1856.

2083. PETER ARMAND LE COMTE DE FONTAINEMOREAU, of 39, Rue de l'Echiquier, Paris, and 4, South Street, Finsbury, London, Patent Agent, for an invention for—"Certain improvements in making artificial stone for statues and ornamenting purposes."—*A communication.* *Letters Patent sealed.*

TROTTIER.
6th September 1856.

2084. HENRI ETIENNE TROTTIER, of 39, Rue de l'Echiquier, Paris, in the Empire of France, and of No. 4, South Street, Finsbury, London, Gentleman, for an invention for—"An improved portable bath." *Provisional protection only.*

HODGE.
6th September 1856.

2085. PAUL RAPSEY HODGE, of Albion Grove, Islington, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in grinding wheat and other farinaceous grains, and in the treatment of the products therefrom."
Letters Patent sealed.

CRAIG.
8th September 1856.

2086. THOMAS CRAIG, of Glasgow, in the County of Lanark, North Britain, Paper Ruler, for an invention for—"Improvements in ruling paper and other materials." *Provisional protection only.*

ESTIVANT.
8th September 1856.

2087. FÉLIX ESTIVANT, in the name of the Society Estivant, Brothers, of Paris, in the Empire of France, and of 45, Essex Street, Strand, London, for an invention for—"Improvements in casting metal tubes." *Letters Patent sealed.*

CHALUS.
8th September 1856.

2088. ADOLPHE GILBERT CHALUS, Merchant, of Paris (Empire of France), and of 45, Essex Street, Strand, London, for an invention for—"Certain improvements in stopping bottles and other vessels." *Letters Patent sealed.*

FOWLER.
8th September 1856.

2089. JOHN FOWLER, junior, of Havering, in the County of Essex, for an invention for—"Improvements in machinery or apparatus for ploughing and tilling land by steam." *Letters Patent sealed.*

DALTON.
8th September 1856.

2090. ALFRED DALTON, of Chester, Iron Master, for an invention for—"Improvements in smelting ironstones and ores, and in furnaces used for that purpose."
Provisional protection only.

BAMFORD.
8th September 1856.

2091. ROBERT BAMFORD, of Preston, in the County of Lancaster, Manager, for an invention for—"Improvements in looms for weaving."—*Provisional protection only.*

SABATIER.
8th September 1856.

2092. BONIFACE SABATIER, of Paris, and of the Office for Patents, 4, Trafalgar Square, Charing Cross, in the County of Middlesex, for an invention for—"Improvements in photography." *Letters Patent sealed.*

HERRING.
8th September 1856.

2093. FRANCIS MITCHELL HERRING, of Basinghall Street, in the City of London, Manufacturer, for an invention for—"Improvements in applying magnetic action to combs and brushes." *Letters Patent sealed.*

RESTELL.
8th September 1856.

2094. THOMAS RESTELL, of New Kent Road, in the County of Surrey, Chronometer Maker, for an invention for—"Improvements in breech-loading fire-arms and ordnance." *Letters Patent sealed.*

PETRIE.
8th September 1856.

2095. WILLIAM PETRIE, of Woolwich, in the County of Kent, Civil Engineer, for an invention for—"Improvements in the manufacture of sulphuric acid, and the apparatus employed therein, parts of which improvements are applicable to the manufacture of nitric, hydro-chloric, and other acids." *Letters Patent sealed.*

NEWTON.
8th September 1856.

2096. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improved machinery for cutting india-rubber and other substances into threads or narrow strips."—*A communication from Henry Davenport, of the City of New York, in the United States of America.* *Letters Patent sealed.*

WATSON.
HALLE.
9th September 1856.

2097. JOHN WATSON, of 30, Tureen Street, Glasgow, in the County of Lanark, North Britain, Manufacturer, and CHARLES FREDERIC HALLE, of Manchester, in the County of Lancaster, for an invention for—"Improvements in spinning or twisting fibrous materials." *Letters Patent sealed.*

PIDDING.
9th September 1856.

2098. WILLIAM PIDDING, of Trinity Terrace, Southwark, in the County of Surrey, Gentleman, for an invention for—"Improvements in the preparation and manufacture of certain piled, corded, or other fabrics." *Provisional protection only.*

CUNNINGHAM.
9th September 1856.

2099. P. HANNAY CUNNINGHAM, of Pitarthie, in the County of Fife, Scotland, at present residing in the City of Washington, in the United States of America, Gentleman, for an invention for—"The production of blanks for bank notes, bills, checks, treasury bonds, scrip, stocks, &c. &c., to prevent counterfeiting, &c."
Provisional protection only.

GOSSAGE.
9th September 1856.

2100. WILLIAM GOSSAGE, of Widnes, in the County of Lancaster, Chemist, for an invention for—"Improvements in the manufacture of certain kinds of soap."
Letters Patent sealed.

BROOMAN. 9th September 1856.

2101. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent Agent, for an invention for—"An improvement in and apparatus for sprinkling substances in a state of powder."—*A communication from F. H. Ouin.*
Letters Patent sealed.

BROOK. 9th September 1856.

2102. CHARLES BROOK the younger, of Meltham Mills, near Huddersfield, in the County of York, for an invention for—"An improvement in polishing or finishing yarns, threads, and woven fabrics." *Letters Patent sealed.*

BOUSFIELD. 9th September 1856.

2103. GEORGE TOMLINSON BOUSFIELD, of Sussex Place, Loughborough Road, Brixton, in the County of Surrey, for an invention for—"An improvement in flying or roving frames."—*A communication.—Complete specification.* *Letters Patent sealed.*

ADCOCK. BAKER. 9th September 1856.

2104. EDWARD ADCOCK, and WILLIAM BAKER, both of Comberton, in the County of Cambridge, for an invention for—"Improvements in barley choppers, and other machines for winnowing or separating grain, and in the arrangement and combination of those machines." *Provisional protection* NOT *granted.*

SMITH. 9th September 1856.

2105. WILLIAM SMITH, of 10, Salisbury Street, Adelphi, in the County of Middlesex, Civil Engineer, for an invention for—"A powerful compound whistle."—*A communication from Mons' Lethuillier Pinel, of Rouen, in the Empire of France.*
Letters Patent sealed.

COOKE. 10th September 1856.

2106. HENRY COOKE, of Manchester, in the County of Lancaster, Cotton Spinner, for an invention for—"Certain improvements in dyeing yarns or threads."
Letters Patent sealed.

SIEMENS. 10th September 1856.

2107. CHARLES WILLIAM SIEMENS, of John Street, Adelphi, in the County of Middlesex, for an invention for—"Improvements in electric telegraphs and apparatus."—*A communication.* *Provisional protection only.*

ROBERT. 10th September 1856.

2108. ALEXANDRE ROBERT, of La Villette, near Paris, France, Metal Refiner, for an invention for—"A new process of treating, smelting, and refining copper, tin, and other refractory metallic ores." *Provisional protection only.*

CUNNINGHAM. 10th September 1856.

2109. HENRY DUNCAN PRESTON CUNNINGHAM, of Gosport, in the County of Hants, Esquire, for an invention for—"Improvements in reefing sails."
Provisional protection only.

RILEY. 10th September 1856.

2110. GEORGE RILEY, of No. 1, The Grove, South Lambeth, in the County of Surrey, for an invention for—"An improved mode of treating maize for distilling, with apparatus therefor." *Provisional protection only.*

NEUENSCHWANDER 10th September 1856.

2111. JOHANNES NEUENSCHWANDER, of the Canton of Bern, in Switzerland, and Proprietor of the Whey Establishment of Harvstehude, near Hamburg, for an invention for—"Certain improved processes of preparing milk to be preserved."
Provisional protection only.

GILBEE. 10th September 1856.

2112. HENRY GILBEE, of No. 4, South Street, Finsbury, London, and 39, Rue de l'Echiquier, Paris, in the Empire of France, for an invention for—"Improvements in the manufacture of iron."—*A communication.* *Provisional protection only.*

TAYLOR. 10th September 1856.

2113. JOHN TAYLOR, of Spring Grove, Hounslow, in the County of Middlesex, for an invention for—"An improvement in building walls." *Letters Patent sealed.*

DAVIDSON. 10th September 1856.

2114. JOSEPH CHRISTIAN DAVIDSON, of Yalding, in the County of Kent, Farmer, for an invention for—"An improved construction of share drill."
Provisional protection only.

WHITE. 10th September 1856.

2115. STEPHEN WHITE, of Newlands Street, Everton, Liverpool, in the County of Lancaster, Gentleman, for an invention for—"An improved method and apparatus for the distillation of certain oils or oily substances from the petroleum, commonly called earth oil, found in certain districts in the Birman Empire, and an improved method of purifying the oils or oily substances so obtained." *Letters Patent sealed.*

DAVIDSON. 10th September 1856.

2116. JOSEPH CHRISTIAN DAVIDSON, of Yalding, in the County of Kent, Farmer, for an invention for—"An improved construction of hop bin or hop frame."
Provisional protection only.

WEBSTER. 10th September 1856.

2117. WILLIAM WEBSTER, of 22, Bunhill Row, Finsbury, in the County of Middlesex, for an invention for—"Improvements in troughs for feeding animals."—*Partly a communication.* *Letters Patent sealed.*

JOHNSON. 10th September 1856. — **2118.** JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in machinery or apparatus for making bricks."—*A communication from Isaac Harman, of the United States of America.* *Provisional protection only.*

OLDHAM. 10th September 1856. — **2119.** WILLIAM OLDHAM, of Southam, in the County of Warwick, Cement Manufacturer, for an invention for—"Improvements in the manufacture of cement, and in treating or preparing colouring matter for cements." *Letters Patent sealed.*

FORSTER. 10th September 1856. — **2120.** WILLIAM HENRY FORSTER, of Gravesend, in the County of Kent, Jeweller, for an invention for—"An improved fastening for articles of jewellery, brooches, or dress ornaments." *Letters Patent sealed.*

ROBINSON. 11th September 1856. — **2121.** JOHN BLYTHE ROBINSON, of Beverley, in the County of York, Gentleman, for an invention for—"Improvements in machinery for effecting agricultural operations."—*A communication.* *Letters Patent sealed.*

GEDGE. 11th September 1856. — **2122.** JOHN GEDGE, of No. 4, Wellington Street South, Strand, in the County of Middlesex, Patent Agent, for an invention for—"Improvements in paint or colouring matter applicable to coating metals and other substances, whereby the oxidation of metal is prevented, and resistance to the action of the atmosphere, rays of heat, or acids, is secured."—*A communication from Allan Macpherson, of Brussels, in the Kingdom of Belgium.* *Letters Patent sealed.*

HUDSON. 11th September 1856. — **2123.** JAMES HUDSON, of Halifax, in the County of York, Gentleman, for an invention for—"Improvements in whetting or setting 'printers' doctors' and other straight edged tools or instruments." *Letters Patent sealed.*

BALESTRINI. 11th September 1856. — **2124.** PIER ALBERTO BALESTRINI, of Brescia (Italy), for an invention for—"Improvements in protecting and laying telegraphic wires." *Letters Patent sealed.*

COWARD. 11th September 1856. — **2125.** RICHARD ATKINSON COWARD, of Laurence Pounteney Lane, in the City of London, for an invention for—"Improvements in paddle-wheels for propelling vessels."—*A communication.* *Letters Patent sealed.*

MILNES. THOMPSON. 11th September 1856. — **2126.** JOHN MILNES, of Sutton Mill, in the Parish of Kildwick, in the County of York, Overlooker, and WILLIAM THOMPSON, of Sutton Mill aforesaid, Mechanic, for an invention for—"Improvements in looms for weaving." *Letters Patent sealed.*

TRUESDELL. 11th September 1856. — **2127.** LUCIUS E. TRUESDELL, of Warren, in the County of Worcester, and State of Massachusetts, in the United States of America, for an invention for—"An improvement in weight-distributing bridges." *Provisional protection only.*

PITMAN. 11th September 1856. — **2128.** JOHN TALBOT PITMAN, of the American and European Patent Offices, No. 67, Gracechurch Street, in the City of London, for an invention for—"Improvements in the construction of iron bridges."—*A communication.* *Letters Patent sealed.*

CHAPLIN. 11th September 1856. — **2129.** ALEXANDER CHAPLIN, of Glasgow, in the County of Lanark, North Britain, Engineer, for an invention for—"Improvements in ships or vessels." *Letters Patent sealed.*

BISHOP. 11th September 1856. — **2130.** ALBERT DEMERIT BISHOP, of Hanover House, Maryon Road, Charlton, in the County of Kent, for an invention for—"Improvements in derricks for raising sunken ships and other heavy bodies from below water, and moving heavy bodies from one place to another." *Letters Patent sealed.*

DUMÉRY. 11th September 1856. — **2131.** CONSTANT JOUFFROY DUMÉRY, of Paris, in the Empire of France, Civil Engineer, for an invention for—"Improvements in apparatus for counting, registering, and indicating the distance travelled by vehicles, and the speed and time of travelling."—*Complete specification.* *Letters Patent sealed.*

CLARK. 12th September 1856. — **2132.** WILLIAM STETTINIUS CLARK, of Camden Town, in the County of Middlesex, for an invention for—"Improvements in hydraulic heaters or furnace."—*A communication from Lewis W. Leeds, of Philadelphia, United States of America.* *Letters Patent sealed.*

LEAVER. 12th September 1856. — **2133.** JOHN JAMES LEAVER, of No. 17, York Street, Rotherhithe, in the County of Surrey, Mechanic, for an invention for—"An improved pump for pumping, raising, or forcing water or other liquid." *Provisional protection only.*

PITMAN.
12th September 1856.

2134. JOHN TALBOT PITMAN, of the American and European Patent Offices, No. 67, Gracechurch Street, in the City of London, for an invention for—"Improvements in repeating fire-arms."—*A communication.* *Letters Patent sealed.*

KORONIKOLSKI.
12th September 1856.

2135. JOSEPH KORONIKOLSKI, of 36, Lisle Street, Leicester Square, London, for an invention for—"Improvements in baking-ovens." *Provisional protection only.*

DUBS.
EVANS.
12th September 1856.

2136. HENRY DUBS, of the Vulcan Foundry, Warrington, in the County of Lancaster, Engineer, and JOSIAH EVANS, of Haydock, of the same County, Engineer, for an invention for—"Improvements in slide valves." *Provisional protection only.*

PATON.
WALSH.
12th September 1856.

2137. EDWARD PATON, and CHARLES FREDERICK WALSH, of the Town and County of Perth, North Britain, Gun Makers, for an invention for—"Improvements in fire-arms and projectiles." *Provisional protection only.*

LEYS.
12th September 1856.

2138. IRÉNÉE LEYS, of Dunkerque, in the Empire of France, and of No. 4, South Street, Finsbury, London, for an invention for—"Certain improvements in the preservation of cheese." *Provisional protection only.*

HUTCHISON.
12th September 1856.

2139. GEORGE HUTCHISON, of 160, Hope Street, Glasgow, for an invention for—"Improvements in the treatment of oils and fats." *Letters Patent sealed.*

ELLIOTT.
12th September 1856.

2140. JOHN ELLIOTT, of Southampton, in the County of Hants, Architect and Civil Engineer, for an invention for—"An improved apparatus for containing and supplying water, gas, and other fluids, applicable also as a fluid meter." *Letters Patent sealed.*

BROOMAN.
12th September 1856.

2141. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent Agent, for an invention for—"Improvements in treating and purifying water to be used in the washing and scouring of wool and in other washing and cleansing operations."—*A communication.* *Provisional protection only.*

GREEN.
13th September 1856.

2142. EDWARD GREEN, of Wakefield, in the County of York, Engineer, for an invention for—"Improvements in scrapers employed to cleanse boiler tubes and flues, for economizing fuel." *Letters Patent sealed.*

WHITTLE.
13th September 1856.

2143. WILLIAM WHITTLE, of Smethwick, in the County of Stafford, Mechanical Engineer, for an invention for—"New or improved machinery for the manufacture of nails." *Letters Patent sealed.*

PEYTON.
13th September 1856.

2144. RICHARD PEYTON, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"An improvement or improvements in the manufacture of metallic bedsteads and other articles for sitting, lying, and reclining upon." *Letters Patent sealed.*

JOHNSON.
13th September 1856.

2145. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in fire-arms."—*A communication from Gaun M. Hutton, Citizen of the United States, now acting as Vice Consul for the United States, at St. Petersburg, in the Empire of Russia.* *Letters Patent sealed.*

VAUGHAN.
13th September 1856.

2146. JAMES STUART VAUGHAN, of Stockland Vicarage, near Bridgwater, in the County of Somerset, for an invention for—"An improvement or improvements in the apparatus for making infusions of vegetable or other substances." *Provisional protection only.*

MONOD.
13th September 1856.

2147. FREDERIC DUCIMETIÈRE MONOD, Chemist, of Marseille, Town in the French Empire, for an invention for—"Improvements in the manufacture of chlorine." *Letters Patent sealed.*

BROOMAN.
13th September 1856.

2148. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent Agent, for an invention for—"Improvements in mills."—*A communication.* *Provisional protection only.*

HILL.
13th September 1856.

2149. CHRISTOPHER HILL, of the Great Western Railway, Chippenham Station, for an invention for—"Improvements in the manufacture of lubricating matters." *Letters Patent sealed.*

LISTER.
13th September 1856.

2150. SAMUEL CUNLIFFE LISTER, of Manningham, near Bradford, York, for an invention for—"Improvements in preparing and spinning cotton, flax, and similar fibres." *Letters Patent sealed.*

BUCHANAN.
13th September 1856.

2151. JOHN BUCHANAN, of Katrine, in the County of Ayr, North Britain, Gentleman, for an invention for—"Improvements in propelling vessels."
Letters Patent sealed.

MORBAU.
15th September 1856.

2152. FELIX MORBAU, of 39, Rue de l'Echiquier, Paris, in the Empire of France, and of No. 4, South Street, Finsbury, London, Gentleman, for an invention for—"Improvements applicable to the tops of omnibuses and other carriages."
Provisional protection only.

KNOWELDEN.
15th September 1856.

2153. JOHN KNOWELDEN, of Southwark, in the County of Surrey, Engineer, for an invention for—"Improvements in the arrangement of valves and apparatus for preventing steam-boiler explosions." *Letters Patent sealed.*

LASSIE.
15th September 1856.

2154. JEAN BAPTISTE JUSTIN LASSIE, of 39, Rue de l'Echiquier, Paris, and 4, South Street, Finsbury, London, Mechanical Engineer, for an invention for—"A new system of aërial navigation." *Letters Patent sealed.*

CLEMENTS.
15th September 1856.

2155. CORNELIUS FERGUSON CLEMENTS, of Liverpool, for an invention for—"An improvement in separating copper and other metals from ores containing them."
Letters Patent sealed.

KLINE.
15th September 1856.

2156. CALVIN KLINE, of Brooklyn, in the County of Kings and State of New York, United States of America, for—"An invention for the improvement of mariners' and other compasses, by which the effect of local attraction is cut off or neutralized, and the compass is made to traverse more perfectly." *Letters Patent sealed.*

CRANSTOUN.
YOUNG.
LOVELL.
15th September 1856.

2157. GEORGE CRANSTOUN TROTTER CRANSTOUN, of Chirnside Bridge, in the County of Berwick, North Britain, Paper Maker, GEORGE YOUNG, of Dunse, in the County of Berwick, North Britain, Plumber, and JOHN LOVELL, of Chirnside Bridge, in the County of Berwick, North Britain, Paper Maker, for an invention for—"Improvements in the application of steam for producing a boiling action in bleaching and other manufacturing processes." *Letters Patent sealed.*

ROWAND.
15th September 1856.

2158. ALEXANDER ROWAND, of Glasgow, in the County of Lanark, North Britain, Merchant, for an invention for—"Improvements in cases or vessels for holding gunpowder." *Letters Patent sealed.*

CHODZKO.
15th September 1856.

2159. STANISLAS CHODZKO, Chemist, of Paris, in the French Empire, for an invention for—"Improvements in the manufacture of manure, and the apparatus employed therein." *Letters Patent sealed.*

GARROOD.
16th September 1856.

2160. ROBERT ELMY GARROOD, of Chelmsford, in the County of Essex, Plumber and Glazier, for an invention for—"Improvements in stop cocks and valves for the drawing off and passage of air, gas, steam, water and other fluids, or for any other purpose for which the same may be applicable." *Letters Patent sealed.*

NEWTON.
16th September 1856.

2161. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"An improved preparation of phosphoric acid."—*A communication from Eben Norton Horsford, of the State of Massachusetts, in the United States of America.*
Letters Patent sealed.

NEWTON.
16th September 1856.

2162. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improved apparatus for raising water by atmospheric pressure."—*A communication from Messrs. Dellettrez père & Company, of Passy, in the Empire of France.*
Letters Patent sealed.

WALKER.
16th September 1856.

2163. ROBERT WALKER, junior, of 62, Buchanan Street, Glasgow, for an invention for—"Improvements in ascertaining the draught of water and trim of ships or vessels." *Letters Patent sealed.*

LAVENDER.
LAVENDER.
16th September 1856.

2164. ROBERT LAVENDER, of Aldersgate Street, in the City of London, and EDWARD LAVENDER, of Aston Street, Limehouse, in the County of Middlesex, for an invention for—"Improvements in raising water and other fluids, and in obtaining power thereby." *Provisional protection only.*

BOUSFIELD.
16th September 1856.

2165. GEORGE TOMLINSON BOUSFIELD, of Sussex Place, Loughborough Road, Brixton, in the County of Surrey, for an invention for—"Improvements in power-looms for weaving wire cloth."—*A communication.* *Letters Patent sealed.*

BROOMAN.
16th September 1856.

2166. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent Agent, for an invention for—"Improvements in waterclosets and night stools."—*A communication from P. Saroglia and V. Belli.* *Letters Patent sealed.*

ELLIOTT.
16th September 1856.

2167. JOHN ELLIOTT, of Southampton, in the County of Hants, Architect and Civil Engineer, for an invention for—"An improvement in taps and cocks." *Provisional protection only.*

MUSHET.
16th September 1856.

2168. ROBERT MUSHET, of Coleford, in the County of Gloucester, Metallurgist, for an invention for—"Improvements in the manufacture of iron." *Letters Patent sealed.*

MUSHET.
16th September 1856.

2169. ROBERT MUSHET, of Coleford, in the County of Gloucester, Metallurgist, for an invention for—"Improvements in the smelting of iron ores." *Letters Patent sealed; no specification filed.*

MUSHET.
16th September 1856.

2170. ROBERT MUSHET, of Coleford, in the County of Gloucester, Metallurgist, for an invention for—"Improvements in the manufacture of iron." *Letters Patent sealed.*

MARTIEN.
16th September 1856.

2171. JOSEPH GILBERT MARTIEN, of Newark, New Jersey, in the United States of America, but at present of 32, Essex Street, Strand, London, for an invention for—"Improvements in the manufacture of iron." *Letters Patent sealed.*

BURNS.
17th September 1856.

2172. ROBERT BURNS, of Liverpool, in the County Palatine of Lancaster, Engineer, for an invention for—"Improvements in bone mills." *Letters Patent sealed.*

MARSDEN.
17th September 1856.

2173. CHARLES MARSDEN, of Kingsland Road, in the County of Middlesex, Engineer, for an invention for—"Improvements in fastenings for shirts and other garments, together with an improved tag." *Provisional protection only.*

CRICHTON.
CATHCART.
17th September 1856.

2174. DAVID CRICHTON, of the City of Manchester, in the County of Lancaster, Machinist, and JAMES CATHCART, of the same place, Mechanician, for an invention for—"Improvements in looms for weaving." *Letters Patent sealed.*

BARBER.
17th September 1856.

2175. JOHN BARBER, of the City of Manchester, in the County of Lancaster, Engraver to Calico Printers, for an invention for—"Improvements in machinery or apparatus for mill and other engraving, punching, dividing, and ruling rollers, either for hand or machine engraving, and an improved maundril used in mill, eccentric, and other machinery employed in engraving rollers for printing and embossing calicoes and other fabrics." *Letters Patent sealed*

ANDRAUD.
17th September 1856.

2176. ANTOINE ANDRAUD, of Paris, in the Empire of France, Engineer, for an invention for—"Certain improvements in wheelbarrows." *Letters Patent sealed.*

SPITTLE.
17th September 1856.

2177. WILLIAM FREDERICK SPITTLE, of Birmingham, in the County of Warwick, Machinist, for an invention for—"A new or improved spindle for braiding and plaiting machines." *Letters Patent sealed.*

NEWMAN.
17th September 1856.

2178. ALFRED LODWICK NEWMAN, of New Church Street, Bermondsey, for an invention for—"Improvements in processes for separating animal from vegetable fibre, and for adapting the products to manufacturing purposes, and in the machinery employed therein." *Letters Patent sealed.*

SCHRÖDER.
17th September 1856.

2179. CARL HEINRICH SCHRÖDER, of Altona, in the Duchy of Holstein, Engineer, for an invention for—"An improved rotatory engine to be worked by steam or other elastic fluid, which invention is also applicable as a rotatory pump for raising and forcing liquids." *Letters Patent sealed.*

DAVIES.
17th September 1856.

2180. GEORGE DAVIES, of the Office for Patents, 1, Serle Street, Lincoln's Inn, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in apparatus for actuating railway breaks."—*A communication from Jacob Héberlein, of Munich, in Bavaria.* *Letters Patent sealed.*

SCHELLER.
17th September 1856.

2181. FRIEDRICH HEINRICH RUDOLF SCHELLER, of Vienna, in the Empire of Austria, Chemist, for an invention for—"An improvement in the manufacture of illuminating gas." *Provisional protection only.*

HETHERINGTON.
GEE.
17th September 1856.

2182. JOHN MUIR HETHERINGTON, of Manchester, in the County of Lancaster, Machinist, and JAMES GEE, of the same place, Draughtsman, for an invention for—"Improvements in flyers for preparing cotton and other fibrous substances for spinning." *Letters Patent sealed.*

BAGGS.
18th September 1856.

2183. ISHAM BAGGS, of Manchester Street, Argyle Square, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in smelting or reducing copper and other metals from their ores, and in the manufacture of sulphuric acid in or by such processes." *Provisional protection only.*

HINDE.
18th September 1856.

2184. THOMAS CALLENDER HINDE, of Birmingham, in the County of Warwick, Merchant and Manufacturer, for an invention for—"An improvement or improvements in the manufacture of iron." *Letters Patent sealed.*

HORREX.
18th September 1856.

2185. THEOPHILUS HORREX, of South Square, Gray's Inn, in the County of Middlesex, Gentleman, for an invention for—"Improvements in means or apparatus to facilitate the delivery of coals to cellars and other such places." *Provisional protection only.*

JACQUEMIER.
18th September 1856.

2186. LOUIS JACQUEMIER, of Rome, now residing at Charlotte Street, Fitzroy Square, in the County of Middlesex, Gentleman, for an invention for—"An improved method of hardening and colouring alabaster and other gypsums and calcareous stones and earths."—*A communication from the Marquis Campana.* *Letters Patent sealed.*

HILL.
18th September 1856.

2187. GEORGE HILL, of City Road, Derby, Engineer, for an invention for—"Improvements in feeding steam-boilers." *Provisional protection only.*

GUILLAUMIN.
18th September 1856.

2188. ANDRÉ GABRIEL GUILLAUMIN, of Paris, in the Empire of France, Merchant, for an invention for—"An improved ramrod." *Provisional protection only.*

WILSON.
18th September 1856.

2189. RICHARD WILSON, of Oxford Court, Salter's Hall, in the City of London, Gentleman, for an invention for—"Improvements in the construction of fireproof floors and ceilings;—applicable in part to the construction of bridges and other structures." *Provisional protection only.*

PLUMMER.
18th September 1856.

2190. WILLIAM FREDERICK PLUMMER, of Saint Mary's Overy Wharf, Southwark, Machinist, for an invention for—"An improved mode of preparing hard wheat and other hard grain for grinding." *Letters Patent sealed.*

GREENWOOD.
18th September 1856.

2191. THOMAS GREENWOOD, of Leeds, in the County of York, Machinist, for an invention for—"Improved machinery for trimming the teeth of wheels." *Letters Patent sealed.*

COOPER.
18th September 1856.

2192. WILLIAM HENRY COOPER, of Manor Cottages, Bromley Hall, in the County of Middlesex, Fret Glazier, for an invention for—"An improvement in the manufacture of fret-work for ornamental windows or lights, applicable also to the cutting of irregular figures in glass generally." *Provisional protection only.*

GOODYEAR.
18th September 1856.

2193. CHARLES GOODYEAR, junior, of Leicester Square, in the County of Middlesex, for an invention for—"Improvements in the manufacture of penholders and handles for penholders." *Letters Patent sealed.*

DE ROUSSEN.
19th September 1856.

2194. JEAN BAPTISTE HONORÉ DE ROUSSEN, of 39, Rue de l'Echiquier, Paris, in the Empire of France, and of No. 4, South Street, Finsbury, London, for an invention for—"Certain improved apparatus for washing and cleansing ores." *Letters Patent sealed.*

BISSEKER.
19th September 1856.

2195. WILLIAM JOHN BISSEKER, of 13, Ludgate Hill, Birmingham, in the County of Warwick, Manufacturer, for an invention for—"Improvements in strings or wires used in or on musical instruments." *Provisional protection only.*

VASSEROT.
19th September 1856.

2196. CHARLES FREDERIC VASSEROT, of the firm Wells and Vasserot, of 45, Essex Street, Strand, London, Patent Agents, for an invention for—"Improvements in filtering water on a large scale."—*A communication from Henri Darcy, of Paris, General Inspector of High Roads, Officer of the Legion of Honour, and Knight of the Order of the King Leopold.* *Letters Patent sealed.*

SMALE.
19th September 1856.

2197. JAMES SMALE, of Gibraltar Row, Southwark, in the County of Surrey, Printer, for an invention for—"Improvements in the mode, means, or apparatus for printing or transferring designs or letters on to glass." *Provisional protection only.*

LAFITTE.
19th September 1856.

2198. PIERRE LAFITTE, of Paris, in the Empire of France, Manufacturer, for an invention for—"An improved engine with rotary piston, applicable to various purposes." *Letters Patent sealed.*

HUSTLER.
19th September 1856.

2199. AMOS HUSTLER, Overlooker, of Bradford, in the County of York, for an invention for—"Improvements in looms for weaving." *Letters Patent sealed.*

TEMPLETON.
LAWSON.
19th September 1856.

2200. ARCHIBALD TEMPLETON, of 7, Skinner Street, in the City of London, and JOHN LAWSON, of Glasgow, for an invention for—"Improvements in the manufacture of pile fabrics." *Letters Patent sealed.*

CLARK.
19th September 1856.

2201. ARTHUR CLARK, of 83, High Street, Southampton, in the County of Hants, for an invention for—"Improvements in signal lamps." *Provisional protection only.*

YOUNG.
19th September 1856.

2202. WILLIAM YOUNG, of Queen Street, Cheapside, in the City of London, Lamp Manufacturer, for an invention for—"Improvements in furnaces, fireplaces, and stoves." *Letters Patent sealed.*

FINCH.
19th September 1856.

2203. EDWARD FINCH, of Bridge Works, Chepstow, Engineer, for an invention for—"Improvements in the construction of wrought iron masts, bowsprits, yards, booms, gaffs, and spars, and in rigging ships." *Letters Patent sealed.*

DAWES.
19th September 1856.

2204. GEORGE DAWES, of the firm of Mayhew & Co., Hat Manufacturers, of Union Street, Southwark, and 89, New Bond Street, in the County of Middlesex, for an invention for—"Improvements in the manufacture of hats." *Provisional protection only.*

VAN HEES.
19th September 1856.

2205. RICHARD VAN HEES, of Manchester, in the County of Lancaster, Merchant, for an invention for—"Improvements in the construction of electric clocks or time keepers."—*A communication from Raymond Kammerer, of Ostend.* *Provisional protection only.*

UNDERWOOD.
BURT.
19th September 1856.

2206. JOHN UNDERWOOD, and FREDERIC VALENTINE BURT, of Fish Street Hill, in the City of London, Stationers and Printers, for an invention for—"The manufacture of copying inks for printing." *Letters Patent sealed.*

SHERAR.
20th September 1856.

2207. JOHN SHERAR, of Aberdeen, in the County of Aberdeen, North Britain, Ironmonger, for an invention for—"Improvements in oil and spirit lamps, by the formation of burners obviating shadow." *Provisional protection only.*

VAN HEES.
20th September 1856.

2208. RICHARD VAN HEES, of Manchester, in the County of Lancaster, Merchant, for an invention for—"Improvements in the construction of wrought iron wheels for railway and other purposes."—*A communication.* *Provisional protection only.*

NAYLOR.
20th September 1856.

2209. JOHN NAYLOR, of Birmingham, in the County of Warwick Brass Founder, for an invention for—"Improvements in window fastenings." *Provisional protection only.*

JOHNSON.
20th September 1856.

2210. WILLIAM JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in steam-boilers."—*A communication.* *Provisional protection only.*

COCHRANE.
20th September 1856.

2211. THE HONOURABLE WILLIAM ERSKINE COCHRANE, of No. 5, Osnaburgh Terrace, Regent's Park, London, for an invention for—"An apparatus for converting crude iron while in a fluid state from a blast or other furnace into malleable or bar iron and steel." *Provisional protection only.*

MAUDSLAY.
20th September 1856.

2212. JOSEPH MAUDSLAY, of Lambeth, in the County of Surrey, Engineer, for an invention for—"Improvements in fireplaces for steam-boilers." *Provisional protection only.*

RAMMELL.
20th September 1856.

2213. THOMAS WEBSTER RAMMELL, of Trafalgar Square, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in constructing railways and propelling carriages thereon." *Letters Patent sealed.*

ROBERTS.
BEECH.
20th September 1856.

2214. JOHN ROBERTS, of Walsall, in the County of Stafford, Mine Agent and Surveyor, and JAMES BEECH, of Walsall aforesaid, Railway Inspector, for an invention for—"A new or improved railway chair." *Letters Patent sealed.*

FORD.
20th September 1856.

2215. ALFRED FORD, of Chelsea, in the County of Middlesex, Gentleman, for an invention for—"Improvements in dissolving vulcanized india-rubber for waterproofing and like purposes." *Letters Patent sealed.*

SAYER.
20th September 1856.

2216. GEORGE WILLIAM SAYER, of Mark Lane, in the City of London, Gentle for an invention for—"Improved machinery for stopping or retarding railway carria —*A communication from Henri Malepart, Machinist, of Cognac, in the Empire of Fr* *Letters Patent se*

BLACKWELL.
20th September 1856.

2217. THOMAS EVANS BLACKWELL, of Clifton, Bristol, Engineer, for an inven for—"An improved mode of constructing fire flues and air passages." *Letters Patent se*

TAYLOR.
22nd September 1856.

2218. WILLIAM TAYLOR, residing at Woodhall Cottage, Shipborne, Tunbri for an invention for—"Improvements in the conversion of cast iron into steel malleable iron." *Letters Patent se*

MUSHET.
22nd September 1856.

2219. ROBERT MUSHET, of Coleford, in the County of Gloucester, Metallur for an invention for—"Improvements in the manufacture of iron and steel." *Letters Patent se*

MUSHET.
22nd September 1856.

2220. ROBERT MUSHET, of Coleford, in the County of Gloucester, Metallur for an invention for—"Improvements in the manufacture of iron and steel." *Letters Patent se*

SELLERS.
SELLERS.
22nd September 1856.

2221. WILLIAM BUSH SELLERS, and ABRAHAM SELLERS, of the firm of J Sellers and Sons, of Sheffield, in the County of York, Manufacturers and Mercha for an invention for—"An improvement in ever-pointed pencil-cases." *Provisional protection o*

WILSON.
WOOTTON.
22nd September 1856.

2222. JOSEPH WILSON, of Birmingham, in the County of Warwick, Gun Ma and CHARLES WOOTTON, of Birmingham aforesaid, Cut Nail Manufacturer, for invention for—"A new or improved screw wrench."—*A communication.* *Provisional protection o*

MORRISON.
22nd September 1856.

2223. JOHN MORRISON, of Birmingham, in the County of Warwick, Machi for an invention for—"A new or improved pen-holder." *Letters Patent se*

WALLACE.
22nd September 1856.

2224. THOMAS WALLACE, of Limehouse, in the County of Middlesex, for an vention for—"Improvements in the manufacture of wheels, axles, and axle-boxes." *Letters Patent se*

TAYLOR.
23rd September 1856.

2225. JOHN GEORGE TAYLOR, of Glasgow, in the County of Lanark, Merch for an invention for—"Improvements in fastenings, connectors, and couplings, and the application thereof." *Letters Patent se*

BOYD.
23rd September 1856.

2226. DAVID OGILVY BOYD, of 78, Welbeck Street, in the County of Middle for an invention for—"Improvements in constructing and arranging flues for passage of air or smoke." *Provisional protection o*

WRIGLEY.
23rd September 1856.

2227. FRANCIS WRIGLEY, of the Long Island Iron Works, Carlisle, in the Cou of Cumberland, Engineer, for an invention for—"An improved friction coupling the transmission of motive-power." *Letters Patent seal*

WINTERBOTTOM.
23rd September 1856.

2228. ROBERT WINTERBOTTOM the younger, of Staley Bridge, in the County Lancaster, Corn Dealer, for an invention for—"Improvements in the mode or meth of making or producing dry barm or yeast." *Provisional protection o*

HUSBAND.
23rd September 1856.

2229. RICHARD HUSBAND, of the City of Manchester, in the County of Lancas Hat Manufacturer, for an invention for—"Certain improvements in the manufactu of silk hats." *Letters Patent seal*

NEWTON.
23rd September 1856.

2230. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery La in the County of Middlesex, Mechanical Draughtsman, for an invention for—"I provements in gimlets, augers, and other tools which operate by a rotary motion." *A communication.* *Letters Patent seal*

JOHNSON.
23rd September 1856.

2231. WILLIAM JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middles and of 166, Buchanan Street, in the City of Glasgow, North Britain, Civil Engine for an invention for—"Improvements in machinery for doubling and twisting fibro materials."—*A communication from Emile Weber.* *Letters Patent seal*

BAYLIS.
GREEN.
24th September 1856.

2232. ARTHUR GEORGE BAYLIS, of Redditch, in the County of Worcester, Man facturer, and JOHN GREEN, of Redditch aforesaid, Needle Finisher, and Foreman the said Arthur George Baylis, for an invention for—"An improvement or improv ments in the manufacture of needles." *Provisional protection on*

BARRIE.
24th September 1856.

2233. ANDREW BARRIE, of Edinburgh, Watch Maker, for an invention for—"A new or improved instrument or apparatus for registering the time at which workmen arrive at and leave their place of work, and for other such like purposes."
Letters Patent sealed.

LESPINASSE.
24th September 1856.

2234. ANTOINE JEAN BAPTISTE LESPINASSE, of Toulouse, in the Empire of France, Engineer, for an invention for—"Improvements in the means of obtaining motive-power." *Provisional protection only.*

COTTRILL.
24th September 1856.

2235. JAMES COTTRILL, of Studley, in the County of Warwick, Needle Maker, for an invention for—"Improvements in machinery to supersede hand labour in the operation of filing." *Letters Patent sealed.*

NEWTON.
24th September 1856.

2236. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improvements in carding-engines."—*A communication.* *Letters Patent sealed.*

BARLOW.
24th September 1856.

2237. PETER WILLIAM BARLOW, of Great George Street, Westminster, for an invention for—"Improvements in the permanent way of railways."
Letters Patent sealed.

HOWELL.
HARVEY.
24th September 1856.

2238. JOSEPH BENNETT HOWELL, of Sheffield, Steel Manufacturer, and NICHOLAS HARVEY, of 12, Haymarket, Engineer, for an invention for—"Improvements in steam and other boilers." *Provisional protection only.*

BEATSON.
24th September 1856.

2239. WILLIAM BEATSON, of Chemical Works, Rotherham, for an invention fo—"Improvements in puddling iron." *Letters Patent sealed*

VION.
24th September 1856.

2240. CHARLES VION, of No. 133, High Holborn, London, County of Middlesex, Civil Engineer, for an invention for—"Improvements in metallic moulds and in the manner of using them for casting metals."—*A communication from Jean Boy, of Paris, France, Founder.* *Provisional protection only.*

PROST.
24th September 1856.

2241. VICTOR FREDERIC ANTOINE PROST, Merchant, of Paris, Town in the French Empire, for an invention for—"Improvements in weaving and in the machinery or apparatus employed therein." *Letters Patent sealed.*

BROWN.
25th September 1856.

2242. ROBERT BROWN, of Glasgow, in the County of Lanark, North Britain, Brass Founder, For an invention for—"Improvements in taps or valves."
Letters Patent sealed.

HOLMES.
ASPINALL.
25th September 1856.

2243. THOMAS HOLMES, of Pendleton, in the County of Lancaster, Bleacher, and THOMAS ASPINALL, of Pendleton aforesaid, Watchman, for an invention for—"Improvements for preventing or diminishing the production of smoke in fireplaces and furnaces, and for effecting its combustion." *Letters Patent sealed.*

WILSON.
25th September 1856.

2244. JOSEPH WILLIAM WILSON, of Banbury, in the County of Oxford, Engineer, for an invention for—"Improvements in machinery or apparatus for manufacturing parts of brooms and brushes." *Letters Patent sealed.*

SAŸNO.
25th September 1856.

2245. CARLO SAŸNO, Mechanician, of Novara, Piedmont, for an invention for—"Improvements in bearings, beds, or sockets, for axles, pivots, or other rotary parts of machinery." *Provisional protection only.*

SILVŸ.
PLAGNIOL.
25th September 1856.

2246. HENRY JOSEPH MARIE EDOUARD SILVŸ, and AMEDÉE ANNE HENRY PLAGNIOL, Mechanicians, of Paris, France, for an invention for—"Improvements in harness." *Provisional protection only.*

SABATIER.
25th September 1856.

2247. ETIENNE SABATIER, of Paris (France), Priest, for an invention for—"Improvements in the permanent way of railways." *Provisional protection only.*

PARNELL.
25th September 1856.

2248. HENRY WILLIAM PARNELL, of 13, Bryanston Square, London, for an invention for—"The construction of ships and boats." *Provisional protection only.*

ALBRIGHT.
25th September 1856.

2249. ARTHUR ALBRIGHT, of George Street, Edgbaston, in the County of Warwick, for an invention for—"Improvements in the manufacture of lucifer matches, and of boxes suitable for containing the same." *Letters Patent sealed.*

FROST.
25th September 1856.

2250. ROBERT FROST, of Steam Mills, Chester, for an invention for—"Improvements in the manufacture of flour." *Letters Patent sealed.*

RUSSELL. HOWELL. 25th September 1856.	2251. JOHN JAMES RUSSELL, of Wednesbury, Patent Tube Manufacturer, JOSEPH BENNETT HOWELL, of Sheffield, Steel Manufacturer, for an invention f "Improvements in the manufacture of cast steel tubes." *Letters Patent se*
MUIR. WALKER. 25th September 1856.	2252. MATTHEW ANDREW MUIR, of Glasgow, in the County of Lanark, N Britain, Machinist, and WILLIAM JAMES WALKER, of the same place, Manufactu for an invention for—"Improvements in machinery or apparatus for sizing or dres yarns or threads." *Letters Patent se*
CALLEY. 25th September 1856.	2253. SAMUEL CALLEY, of Brixham, in the County of Devon, Ship Owner, an invention for—"Improved composition and compositions for coating or cove surfaces, particularly the bottoms of ships and vessels." *Letters Patent se*
LANGLOIS. 26th September 1856.	2254. CLAUDE LANGLOIS, of Bath, in the County of Somerset, Artist, for invention for—"Improvements in photography." *Letters Patent se*
MEAKIN. 26th September 1856.	2255. JOHN FORSTER MEAKIN, of No. 84, Baker Street, Portman Square, in Parish of St. Marylebone, in the County of Middlesex, for an invention for—" improved fire-escape." *Provisional protection a*
PELLEN. 26th September 1856.	2256. MARIUS PELLEN, of the firm Pellen & Co., of No. 68, Rue d'A St. Honoré, in the City of Paris, Merchants, for an invention for—"Rende impermeable by gas, caoutchouc, gold beaters' skin, paper, gauze, and sim materials used for things adapted to receive an ascending force, such as ballo aërostatic machines, toys, &c. &c., by the application of a peculiar varnish." *Letters Patent se*
RENSHAW. 26th September 1856.	2257. CHARLES RENSHAW, of Dukinfield, in the County of Chester, Engi and Millwright, for an invention for—"Improvements in squeezing rollers applic to machinery or apparatus for pressing or partially drying yarns and woven fabrics." *Letters Patent se*
HORSFALL. 26th September 1856.	2258. WILLIAM HORSFALL, of the City of Manchester, in the County of L caster, Card Manufacturer, for an invention for—"An improvement or improvem in cards for carding fibrous substances." *Letters Patent se*
WOODWARD. 26th September 1856.	2259. GEORGE GOWER WOODWARD, of Kidderminster, in the County of W cester, for an invention for—"Improvements in the manufacture of carpets." *Letters Patent se*
RANSOME. 26th September 1856.	2260. FREDERICK RANSOME, of Ipswich, for an invention for—"Improveme in the manufacture of artificial fuel." *Provisional protection o*
HOLLAND. IRVING. 27th September 1856.	2261. JAMES HOLLAND, of Manchester, in the County of Lancaster, Dyer, a JOHN IRVING, of the same place, Chemist, for an invention for—"Improvements the treatment of certain waste woollen yarns or threads, whereby the fibre or wool which they are composed is rendered capable of being again spun and manufactured *Provisional protection o*
THOM. PHILLIPS. 27th September 1856.	2262. DAVID THOM, and GEORGE ALDCROFT PHILLIPS, both of Manchest in the County of Lancaster, Soap Manufacturers, for an invention for—"An impro ment in 'soap frames.'" *Provisional protection o*
NEALL. 27th September 1856.	2263. GEORGE NEALL, Wholesale Brewer, of Northampton, for an invention —"An improved union gas stove for lighting and heating." *Letters Patent seal*
BOYD. 27th September 1856.	2264. JOHN BOYD, of Ashbocking, in the County of Suffolk, Gentleman, for invention for—"Improvements in letter-press printing machines." *Letters Patent seal*
LAW. INGLIS. 27th September 1856.	2265. DAVID LAW, of Glasgow, in the County of Lanark, North Britain, a JOHN INGLIS, of the same place, Ironfounders, for an invention for—"Improvemen in moulding or shaping metals." *Letters Patent seal*
SMITH. TAYLOR. 27th September 1856.	2266. WILLIAM SMITH, of Skinner Street, Snow Hill, in the City of London, a NATHANIEL FORTESCUE TAYLOR, of Stratford, in the County of Essex, Gas En neers, for an invention for—"Improvements in apparatus for measuring gas and oth fluids, and in regulating the flow of the same." *Letters Patent seal*
RANSOME. 27th September 1856.	2267. FREDERICK RANSOME, of Ipswich, for an invention for—"Improvements the manufacture of artificial stone, and in rendering it and other building materi less liable to decay." *Letters Patent seal*

HAYES.
27th September 1856.

2268. JOHN MONTAGU HAYES, Captain Royal Navy, of 6, Portland Terrace, Southsea, for an invention for—"Improvements in percussion cap holders."
Provisional protection only.

EDWARDS.
27th September 1856.

2269. JOSEPH EDWARDS, of Liverpool, in the County of Lancaster, Provision Dealer, for an invention for—"An improved ships' log."—*A communication.*
Letters Patent sealed.

ROTHWELL.
27th September 1856.

2270. JOHN ROTHWELL, of Park Hall, Bolton, in the County of Lancaster, for an invention for—"A certain composition and preparation to promote the ignition and combustion of coke, coal, and other combustible substances, in stoves, furnaces, and grates." *Letters Patent sealed.*

ORMEROD.
27th September 1856.

2271. JOHN ORMEROD, of Salford, in the County of Lancaster, Bleacher, for an invention for—"Improvements in machinery or apparatus for bleaching, washing, or cleansing textile fabrics and materials;—applicable also to the 'soaping' of printed fabrics." *Provisional protection only.*

JACKSON.
MYERS.
29th September 1856.

2272. LUKE DUNCAN JACKSON, Engineer, of Underwood, in the Parish of Selstone, in the County of Nottingham, and HENRY MYERS, 52, Rathbone Place, County Middlesex, Medical Practitioner, for an invention for—"An apparatus for the better working of breaks in stopping railway trains." *Provisional protection only.*

LARNAUDÈS.
29th September 1856.

2273. JEAN FRANÇOIS VICTOR LARNAUDÈS, of No. 2, Rue Gabrielle, Montmartre, near Paris, in the Empire of France, Gentleman, for an invention for—"An anti-putrefactive and disinfectant." *Provisional protection only.*

CARR.
29th September 1856.

2274. CHARLES JOHN CARR, of Belper, in the County of Derby, Engineer, for an invention for—"Improvements in operating hammers and stamps."
Letters Patent sealed.

WARD.
29th September 1856.

2275. JAMES NOBLE WARD, of the Army of the United States of America, for an invention for—"An improvement in the construction of self-priming fire-arms."
Letters Patent sealed.

BOYCOTT.
29th September 1856.

2276. RICHARD BOYCOTT, of Blaina, in the Parish of Aberystruth, in the County of Monmouth, for an invention for—"An improved air-door."
Provisional protection only.

HICKSON.
29th September 1856.

2277. MATTHEW HICKSON, of Salford, near Manchester, in the County of Lancaster, Gentleman, for an invention for—"Improvements in waterproofing certain woven fabrics." *Letters Patent sealed.*

THOM.
PHILLIPS.
29th September 1856.

2278. DAVID THOM, and GEORGE ALDCROFT PHILLIPS, both of Manchester, in the County of Lancaster, Soap Manufacturers, for an invention for—"Certain improvements in apparatus used in the manufacture of soap." *Letters Patent sealed.*

MORRISON.
29th September 1856.

2279. ROBERT MORRISON, of the Town and County of the Town of Newcastle-upon-Tyne, Engineer, for an invention for—"Improvements in the construction of apparatus for lifting, lowering, hauling, and removing moveable articles, by the direct action of either water, steam, or gaseous vapour." *Letters Patent sealed.*

LORD.
29th September 1856.

2280. JOHN LORD, of Rochdale, in the County of Lancaster, Flannel Manufacturer, for an invention for—"Certain improvements in the process of separating or recovering animal wool or silk from cotton and woollen, or from cotton and silk, or other mixed fabrics, whereby the animal wool or silk is rendered capable of being again employed, which said improvements are also applicable to wool in its unmanufactured state." *Letters Patent sealed.*

JENKINS.
29th September 1856.

2281. HENRY JENKINS, of Birmingham, in the County of Warwick, Die-sinker, Stamper, and Piercer, for an invention for—"Improvements in the manufacture of buckles and other dress fasteners."—*Complete specification.* *Letters Patent sealed.*

BOUSFIELD.
29th September 1856.

2282. GEORGE TOMLINSON BOUSFIELD, of Sussex Place, Loughborough Road, Brixton, in the County of Surrey, for an invention for—"An improvement in the manufacture of artificial stone."—*A communication.* *Letters Patent sealed.*

RAMIÉ.
29th September 1856.

2283. CHARLES WILLIAM RAMIÉ, of Pimlico, in the County of Middlesex, for an invention for—"Improvements in constructing the permanent ways of railways."
Letters Patent sealed.

IVERS.
30th September 1856.

2284. SAMUEL IVERS, of Halshaw Moor, near Bolton-le-Moors, in the County of Lancaster, Mechanic, for an invention for—"Certain improvements in looms for weaving." *Provisional protection only.*

DILLON.
GRAY.
30th September 1856.

2285. THOMAS ARTHUR DILLON, of the Registry of Deeds Office, in the Co of the City of Dublin, and JOHN GRAY, M.D., of 4 and 5, Princes Street, in County of the City of Dublin, Esquires, for an invention for—"An improved me for making signals on railway trains between the guard and driver respectively, between the passengers and guard and driver, and of giving notice to the guard driver in case of the accidental severance of the parts of a train;—which inventio applicable also to steam ships, factories, and other places where it may be requisit communicate with distant points." *Letters Patent se*

ROSS.
30th September 1856.

2286. ROBERT CRAIB ROSS, of Glasgow, in the County of Lanark, North Brit Engineer, for an invention for—"Improvements in paddle-wheels or propelling ap ratus for ships or vessels." *Provisional protection a*

JAY.
SMITH.
30th September 1856.

2287. SAMUEL JAY, and GEORGE SMITH, both of 246, Regent Street, in County of Middlesex, for an invention for—"A new material to be employed in manufacture of bonnets, hoods, hats, or caps." *Provisional protection a*

GARD.
30th September 1856.

2288. WILLIAM GOSTWYCK GARD, of Calstock, in the County of Corn Engineer, for an invention for—"Improvements in bits for boring and sinking." *Letters Patent se*

BRUCE.
30th September 1856.

2289. DUNCAN BRUCE, of Paspebiac, in the County of Bonaventure, in the vince of Canada, for an invention for—"Making a concentrated animal manure." *Letters Patent se*

FONTAINEMOREAU.
1st October 1856.

2290. PIERRE ARMAND LE COMTE DE FONTAINEMOREAU, of 39, Rue de l'E quier, Paris, in the Empire of France, and of 4, South Street, Finsbury, London, an invention for—"An improved voltaic battery."—*A communication from Profe Francesco Selmi, of Turin, in the Kingdom of Sardinia.* *Letters Patent se*

QUENTIN.
1st October 1856.

2291. CHARLES LOUIS HENRI QUENTIN, of Rue des Petits-Hôtels, No. 27 the City of Paris, in the Empire of France, Engineer, for an invention for—"Mak a new kind of artificial millstones." *Provisional protection a*

FLINT.
WOOD.
WOOD.
1st October 1856.

2292. GEORGE FLINT, of Skinner Street, Bishopsgate Without, in the City London, Engineer, THOMAS WOOD, of Tachbrook Street, Pimlico, in the County Middlesex, and EDWARD WOOD, of Tachbrook Street aforesaid, for an invention fo "An improved punching press, or machine adapted to the purposes of stampi coining, slotting, and embossing, and for cutting metal and other substances." *Letters Patent seal*

DAUGLISH.
1st October 1856.

2293. JOHN DAUGLISH, of Great Malvern, in the County of Worcester, Docto Medicine, for an invention for—"An improved method of making bread." *Letters Patent seal*

HOLMAN.
1st October 1856.

2294. JOHN HOLMAN, of the Western Clubs, Topsham, for an invention fo "Improvements in ships' rudders." *Letters Patent seal*

BEGG.
1st October 1856.

2295. JAMES BEGG, of Glasgow, in the County of Lanark, North Britain, Engine for an invention for—"Improvements in preparing and bleaching textile fabrics a materials." *Letters Patent seal*

NAYLOR.
CRABTREE.
1st October 1856.

2296. HENRY NAYLOR, of Bacup, Warper, and JAMES CRABTREE, of Rochda Machine Maker, both in the County of Lancaster, for an invention for—"Impro ments in and applicable to machines commonly known as warping mills." *Letters Patent seal*

PATERSON.
1st October 1856.

2297. JOHN PATERSON, of the Town and County of Linlithgow, North Brita Engineer, for an invention for—"Improvements in the manufacture of paper." *Provisional protection on*

NEWTON.
1st October 1856.

2298. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery La in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Certa improvements in sewing machinery."—*A communication.* *Letters Patent seal*

SALTER.
1st October 1856.

2299. ROGER GEORGE SALTER, of Alphington, in the County of Devon, Engine for an invention for—"A method of and apparatus for expediting the stamping marking of letters, papers, labels, and documents, and improvements in and additio to stamping and marking instruments or apparatus in connection therewith." *Provisional protection on*

GARDISSAL. 1st October 1856.

2300. CHARLES DURAND GARDISSAL, of 10, Bedford Street, Strand, London, and of 29, Boulevart St. Martin, Paris, Patent Agent, for an invention for—"Improvements in stoves and apparatus for heating or warming greenhouses, which may also be used for other warming or heating purposes."—*A communication.*
Letters Patent sealed.

GARDISSAL. 1st October 1856.

2301. CHARLES DURAND GARDISSAL, of 10, Bedford Street, Strand, London, and of 29, Boulevart St. Martin, Paris, Patent Agent, for an invention for—"An improved construction of pump."—*A communication.* *Provisional protection only.*

JONES. 1st October 1856.

2302. DAVID JONES, of Greenhill Villa, Ragland, in the County of Monmouth, Civil Engineer, for an invention for—"Certain improvements in obtaining and applying motive-power." *Provisional protection only.*

WILCOX. 1st October 1856.

2303. EDWARD WILCOX, of Harmston, in the County of Lincoln, for an invention for—"Improvements in pumps." *Provisional protection only.*

PASTORELLI. GIBB. 1st October 1856.

2304. FRANCIS JOHN PASTORELLI, and JOHN GIBB, of 208, Piccadilly, London, for an invention for—"Improvements in self-registering thermometers and other similar indicating instruments." *Provisional protection* NOT *granted.*

HARDON. HENRY. 2nd October 1856.

2305. EDWIN HARDON, of Stockport, in the County of Chester, Manufacturer, and JOSEPH HENRY, of the same place, Mechanic, for an invention for—"Improvements in looms for weaving, and in machinery for communicating motion to looms and other machines." *Letters Patent sealed.*

WHITEHEAD. 2nd October 1856.

2306. JAMES WHITEHEAD, of Dukinfield, in the County of Chester, Grocer, for an invention for—"Certain improvements in machinery or apparatus for preparing and spinning cotton and other fibrous substances." *Provisional protection only.*

RENSHAW. 2nd October 1856.

2307. JOSEPH RENSHAW, of Salford, in the County of Lancaster, Machinist, for an invention for—"Certain improvements in machinery or apparatus for cutting or producing the pile of plain or figured velvets, or other pile cut goods or fabrics."
Letters Patent sealed.

RENAULT. 2nd October 1856.

2308. VICTOR RENAULT, of Bordeaux, in the Empire of France, Practical Engineer, for an invention for—"Improvements in regulating and directing the steam escaping from the cylinders of locomotive engines." *Letters Patent sealed.*

DESMOND. 2nd October 1856.

2309. DANIEL DESMOND, of Upper Thames Street, in the City of London, Beer Merchant, for an invention for—"Improvements in vessels and apparatus for storing, improving, and discharging liquids." *Letters Patent sealed.*

DISTIN. 2nd October 1856.

2310. HENRY JOHN DISTIN, of No. 31, Cranbourne Street, Leicester Square, in the County of Middlesex, Musical Instrument Manufacturer, for an invention for—"Improvements in the means of regulating the tone of kettle drums."—*A communication.* *Provisional protection only.*

EDMESTON. 2nd October 1856.

2311. ROBERT EDMESTON, of the firm of Messrs. Edmeston and Higham, of Bradford, in the County of York, for an invention for—"Improvements in looms for weaving." *Letters Patent sealed.*

GOODYEAR. 2nd October 1856.

2312. CHARLES GOODYEAR, of Leicester Square, in the County of Middlesex, for an invention for—"Improvements in securing the openings of air-tight and other bags and packages." *Letters Patent sealed.*

CROFTON. 2nd October 1856.

2313. MICHAEL THOMAS CROFTON, of Leeds, in the County of York, for an invention for—"An apparatus for indicating and registering the number of persons entering a public vehicle or carriage." *Letters Patent sealed.*

HOPKINS. 3rd October 1856.

2314. JOHN HOPKINS, of Number 5, Lower Oxford Street, Whitechapel, in the County of Middlesex, Builder, for an invention for—"Improvements in the construction of furnaces." *Provisional protection only.*

FONTAINEMOREAU. 3rd October 1856.

2315. PETER ARMAND LE COMTE DE FONTAINEMOREAU, of No. 4, South Street, Finsbury, London, and 39, Rue de l'Echiquier, Paris, Patent Agent, for an invention for—"Improvements in the construction of roofs of buildings;—which improvements are applicable to the construction of arches of bridges."—*A communication.*
Letters Patent sealed.

HALL. 3rd October 1856. — **2316.** JOHN HALL the younger, of Mount Pleasant, Walmersley, near Bury, in the County of Lancaster, Spinner and Manufacturer, for an invention for—"Improvements in looms." *Letters Patent sealed.*

JOHNSON. 3rd October 1856. — **2317.** WILLIAM JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, in the County of Lanark, North Britain, Engineer, for an invention for—"Improvements in the treatment, preparation, or manufacture of sheet caoutchouc, and in the combination thereof with cloth and other fabrics."—*A communication.* *Letters Patent sealed.*

WRIGHT. 3rd October 1856. — **2318.** LEMUEL WELLMAN WRIGHT, of Sydenham, in the County of Kent, Engineer, for an invention for—"Improvements in gas meters." *Provisional protection only.*

WILSON. AUSTEN. 3rd October 1856. — **2319.** GEORGE FERGUSSON WILSON, and ALEXANDER ISAAC AUSTEN, both of Belmont, Vauxhall, for an invention for—"Improvements in the manufacture of soap." *Letters Patent sealed.*

BOYD. 3rd October 1856. — **2320.** DAVID OGILVY BOYD, of 78, Welbeck Street, in the County of Middlesex, for an invention for—"Improvements in constructing and arranging smoke and air flues." *Letters Patent sealed.*

VILCOQ. 3rd October 1856. — **2321.** BLANCHE PALMIRE MOSQUERON WIDOW VILCOQ, of Paris (Empire of France), and of 45, Essex Street, Strand, London, for an invention for—"An improved lamp oil." *Provisional protection only.*

BROOMAN. 3rd October 1856. — **2322.** RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent Agent, for an invention for—"An improved lathe or tool suitable for turning, drilling, boring, planing, and smoothening, also for grooving, mortising, and slotting, parts of which tool may be applied to lathes generally."—*A communication from Monsieur Fleury.* *Provisional protection only.*

ALLEN. 3rd October 1856. — **2323.** JAMES ALLEN, of Castle Place, Castle Street, Canterbury, in the County of Kent, for an invention for—"Improvements in coats." *Letters Patent sealed.*

HASLAM. HASLAM. 3rd October 1856. — **2324.** ROBERT HASLAM, Weaver, and JAMES HASLAM, Timber Dealer, of Preston, in the County of Lancaster, for an invention for—"Improvements in looms for weaving." *Provisional protection only.*

FARQUHARSON. GRIMSHAW. 3rd October 1856. — **2325.** COLIN FARQUHARSON, and WILLIAM GRIMSHAW, both of Mitcham, in the County of Surrey, Engineers, for an invention for—"Improvements in apparatus for indicating and regulating the pressure of steam in boilers." *Provisional protection only.*

GARDISSAL. 3rd October 1856. — **2326.** CHARLES DURAND GARDISSAL, of 10, Bedford Street, Strand, London, and of 29, Boulevart St. Martin, Paris, Patent Agent, for an invention for—"Improvements in the manufacture of cement."—*A communication.* *Letters Patent sealed.*

PICARD. 4th October 1856. — **2327.** ALEXIS PICARD, of 39, Rue de l'Echiquier, Paris, in the Empire of France, and of 4, South Street, Finsbury, London, for an invention for—"An improved tobacco pipe." *Letters Patent sealed.*

NEWTON. 4th October 1856. — **2328.** ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improvements in supplying steam-boilers with water."—*A communication.* *Letters Patent sealed.*

PRESTON. 4th October 1856. — **2329.** WALMSLEY PRESTON, of Over Darwen, in the County of Lancaster, Manager, for an invention for—"Improved machinery to be used in the manufacture of paper hangings." *Letters Patent sealed.*

FARINA. 4th October 1856. — **2330.** MARIA FARINA, of Hanway Street, Oxford Street, in the County of Middlesex, for an invention for—"An improved tooth powder."—*A communication.* *Letters Patent sealed.*

BETTELEY. 4th October 1856. — **2331.** JOSEPH BETTELEY, of Liverpool, Anchor Manufacturer, for an invention for—"Improvements in the manufacture of iron for knees for ships or other purposes." *Provisional protection only.*

SILVESTER. 6th October 1856. — **2332.** JOHN SILVESTER, of Woolwich, in the County of Kent, Machinist, for an invention for—"Improvements in the application of steam or air in the production of motive-power." *Provisional protection only.*

GEDGE.
6th October 1856.

2333. JOHN GEDGE, of No. 4, Wellington Street South, Strand, in the County of Middlesex, Patent Agent, for an invention for—"Improvements in the preparation of rocky substances for obtaining mineral manure."—*A communication from John Urfus, of Prague, in the Kingdom of Bohemia.* *Letters Patent sealed.*

MACKWORTH.
6th October 1856.

2334. HERBERT MACKWORTH, of Clifton, in the County of Gloucester, for an invention for—"Improvements in the separation and treatment of mineral substances, and in coking, and in apparatus connected therewith." *Letters Patent sealed.*

DUNLOP.
6th October 1856.

2335. ANDREW DUNLOP, of Glasgow, in the County of Lanark, North Britain, Grain Merchant, for an invention for—"Improvements in dressing or sifting flour or meal." *Letters Patent sealed.*

AVRIL.
6th October 1856.

2336. VICTOR AVRIL, of Paris, in the French Empire, Engineer, for an invention for—"Improvements in the manufacture of iron and steel."—*Provisional protection only.*

AVRIL.
6th October 1856.

2337. VICTOR AVRIL, of Paris, in the French Empire, Engineer, for an invention for—"Improvements in the manufacture of iron and steel, and in the construction of furnaces to be employed therein, also in the obtaining of a certain agent employed in such manufacture." *Provisional protection only.*

HAZARD.
7th October 1856.

2338. ROBERT HAZARD, of No. 1, Thanett Place, Strand, in the County of Middlesex, Warming and Ventilating Engineer, for an invention for—"An improved apparatus for intercepting the smoke and heated gases in its passage from boilers, stoves, furnaces, and kilns, to the chimney, and thereby extracting a portion of its heat, which is made available for drying and warming purposes."—*Provisional protection only.*

SMITH.
7th October 1856.

2339. THOMAS BRIGGS SMITH, of Taunton, Massachusetts, in the United States of America, now of 67, Gracechurch Street, London, for an invention for—"Improvements in the permanent way of railways, and in the running of railway carriages." *Provisional protection only.*

BARRATT.
7th October 1856.

2340. OGLETHORPE WAKELIN BARRATT, of Birmingham, in the County of Warwick, Chemist, for an invention for—"Improvements in the dyeing or staining and ornamenting of articles of pearl, bone, and vegetable ivory."—*Letters Patent sealed.*

PARSSON.
7th October 1856.

2341. WILLIAM NEHEMIAH PARSSON, of Southwark Bridge Road, in the County of Surrey, Engineer, for an invention for—"An improved construction of rotary sawing-machine." *Letters Patent sealed.*

BOTTOMLEY.
CROSSLEY.
7th October 1856.

2342. SMITH BOTTOMLEY, of Bradford, in the County of York, Designer, and JAMES WILLIAM CROSSLEY, of Brighouse, in the same County, Dyer, for an invention for—"Improvements in the manufacture of pile or nap fabrics." *Letters Patent sealed.*

HINKS.
7th October 1856.

2343. JAMES HINKS, of Birmingham, in the County of Warwick, for an invention for—"A new or improved manufacture of metal boxes." *Letters Patent sealed.*

WILKINSON.
7th October 1856.

2344. WILLIAM WILKINSON, of the Town of Nottingham, Engineer, for an invention for—"Improvements in casters, in the legs of tables, chairs, pianofortes, and other articles of furniture, and in apparatus for perforating caster wheels, which is also applicable to the perforating of glass articles generally." *Letters Patent sealed.*

WILKINSON.
7th October 1856.

2345. WILLIAM WILKINSON, of the Town of Nottingham, Engineer, for an invention for—"Improvements in ornamenting glass, and in the preparation of the materials employed therein." *Letters Patent sealed.*

BUNNETT.
7th October 1856.

2346. JOSEPH BUNNETT, of Deptford, in the County of Kent, Engineer, for an invention for—"Improvements in the manufacture of metal sash bars, columns, and mouldings, for building and decorative purposes, and for a method of protecting the same or other articles from oxydation." *Letters Patent sealed.*

LE FRANC.
7th October 1856.

2347. JULES ADOLPHE LE FRANC, of Cecil Street, Strand, in the County of Middlesex, for an invention for—"An improvement in lubricating oil cans or vessels."—*A communication.* *Provisional protection only.*

WILSON.
7th October 1856.

2348. GEORGE FERGUSSON WILSON, of Belmont, Vauxhall, for an invention for—"An improvement in the manufacture of resin oil." *Letters Patent sealed.*

MARRIOTT.
SUGDEN.
7th October 1856.

2349. WILLIAM MARRIOTT, and DAVID SUGDEN, of Huddersfield, in the County of York, Agricultural and Manufacturing Chemists, for an invention for—"An improvement in purifying coal gas." *Letters Patent sealed.*

WARD.
8th October 1856.

2350. WILLIAM WARD, of Warrington, in the County of Chester, Spinner and Manufacturer, for an invention for—"An improved manufacture of woven fabric." *Letters Patent sealed.*

CHIOSSO.
8th October 1856.

2351. JAMES CHIOSSO, of Camden Town, in the County of Middlesex, for an invention for—"An apparatus for damping and affixing adhesive stamps and labels." *Letters Patent sealed.*

WHITEHEAD.
8th October 1856.

2352. FRANCIS WHITEHEAD, of Crayford, in the County of Kent, Draughtsman, for an invention for—"A method of and apparatus for producing devices in or on wood, leather, and other similar surfaces, whether for ornamenting the same, or for the production of printing and embossing surfaces therefrom."—*Letters Patent sealed.*

PONTIFEX.
OGSTON.
8th October 1856.

2353. EDMUND ALFRED PONTIFEX, of Shoe Lane, in the City of London, Manufacturer, and GEORGE HENRY OGSTON, of Greenwich, in the County of Kent, Chemist, for an invention for—"Improvements in the manufacture of tartaric and citric acids." *Provisional protection only.*

BRADFORD.
8th October 1856.

2354. WILLIAM BRADFORD, of the City of Manchester, in the County of Lancaster, Brass Founder and Gas Fitter, for an invention for—"Improvements in the arrangement of gas burners for lighting and ventilating." *Letters Patent sealed.*

LEIGH.
8th October 1856.

2355. JOHN LEIGH, of the City of Manchester, in the County of Lancaster, Surgeon, for an invention for—"The use or application of a certain substance or substances in the manufacture of paper, for stiffening and sizing the same." *Provisional protection only.*

FOXWELL.
8th October 1856.

2356. DANIEL FOXWELL, of the City of Manchester, in the County of Lancaster, Card Manufacturer, for an invention for—"An improved mode or method of consuming smoke and economizing fuel thereby." *Letters Patent sealed.*

DUGDALE.
8th October 1856.

2357. THOMAS DUGDALE, junior, of Blackburn, in the County of Lancaster, Cotton Spinner, for an invention for—"An improved lubricator." *Letters Patent sealed.*

JOY.
HOLT.
8th October 1856.

2358. DAVID JOY, of Leeds, in the County of York, Engineer, and WILLIAM HOLT, of the same place, Organ Builder, for an invention for—"Improvements in hydraulic motive-power engines, and the application thereof to certain useful purposes." *Letters Patent sealed.*

WARD.
8th October 1856.

2359. PETER WARD, of Liverpool, in the County of Lancaster, Chemist, for an invention for—"An improved composition for coating the bottoms of ships." *Letters Patent sealed.*

WATSON.
DIXON.
8th October 1856.

2360. HENRY WATSON, of High Bridge Works, Newcastle-upon-Tyne, Brass Founder, and JOHN DIXON, of the same place, Engineer, for an invention for—"Improvements in cocks and valves." *Letters Patent sealed.*

ILES.
8th October 1856.

2361. CHARLES ILES, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"Improvements in frames and stands and in suspenders or pegs for holding or suspending hats, coats, and other articles."—*Provisional protection only.*

JULIEN.
8th October 1856.

2362. FRANÇOIS JULIEN (Office for Patents), 4, Trafalgar Square, Charing Cross, in the County of Middlesex, for an invention for—"Improvements in ordnance or cannon." *Provisional protection only.*

CLARK.
9th October 1856.

2363. WILLIAM STETTINIUS CLARK, of High Holborn, in the County of Middlesex, for an invention for—"Improvements in the construction of churns for producing butter."—*A communication.* *Letters Patent sealed.*

KING.
9th October 1856.

2364. THOMAS KING, of Spitalfields, in the County of Middlesex, Surveyor, for an invention for—"An improved continuous compressing machine." *Letters Patent sealed.*

LONGRIDGE.
RICHARDSON.
9th October 1856.

2365. JAMES ATKINSON LONGRIDGE, of Fludyer Street, Westminster, Civil Engineer, and THOMAS RICHARDSON, of Newcastle-upon-Tyne, Chemist, for an invention for—"An improvement in constructing the fire-boxes of locomotive steam-boilers." *Letters Patent sealed.*

COTTAM.
COTTAM.
9th October 1856.

2366. GEORGE HALLEN COTTAM, and HENRY RICHARD COTTAM, of St. Pancras Iron Works, Old St. Pancras Road, for an invention for—"An improvement in the manufacture of iron hurdles." *Letters Patent sealed.*

BURTON.
9th October 1856.

2367. CHARLES BURTON, of Regent Street, in the County of Middlesex, for an invention for—"Improvements in machinery for washing and cleansing fabrics and clothes." *Letters Patent sealed.*

NAIRNE.
9th October 1856.

2368. WILLIAM NAIRNE, of Aberdalgie, near Perth, for an invention for—"Certain improvements in the machinery for preparing flax, tow, and other fibrous substances." *Letters Patent sealed.*

HOWELL.
9th October 1856.

2369. JOSEPH BENNETT HOWELL, of Sheffield, in the County of York, for an invention for—"Improvements in the manufacture of cast steel."—*Letters Patent sealed.*

SHAW.
SHAW.
9th October 1856.

2370. JOHN SHAW, and EDWIN SHAW, of Glossop, in the County of Derby, Musical Instrument Makers, for an invention for—"Certain improvements in pianofortes, organs, harmoniums, and other similar keyed musical instruments." *Letters Patent sealed.*

JORDAN.
9th October 1856.

2371. LEWIS JACOB JORDAN, of Berner Street, in the County of Middlesex, Gentleman, for an invention for—"A medicine for the cure of venereal affections." *Letters Patent sealed.*

HENDY.
9th October 1856.

2372. JAMES SAUL HENDY, of Essex Street, Strand, in the County of Middlesex, Butler of the Honorable Society of the Inner Temple, for an invention for—"Improvements in fire-stoves or grates used for domestic purposes."—*Letters Patent sealed.*

LABAT.
10th October 1856.

2373. JEAN ALEXANDRE LABAT, junior, of Bordeaux, in the Empire of France, and of 32, Essex Street, Strand, London, for an invention for—"Improvements in closing or stoppering bottles, jars, and other like vessels." *Letters Patent sealed.*

BROWN.
10th October 1856.

2374. JOHN HARCOURT BROWN, of Teddington, in the County of Middlesex, for an invention for—"The production of artificial skins, &c." *Provisional protection* NOT *granted.*

PALMER.
10th October 1856.

2375. CHRISTOPHER RICHARD NORRIS PALMER, of Southampton, Hants, Esquire, for an invention for—"A signalizing apparatus for carriages, and improved telegraph or signal apparatus applicable to other purposes." *Letters Patent sealed.*

JOHNSON.
10th October 1856.

2376. WILLIAM JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Civil Engineer, for an invention for—"Improvements in railway breaks."—*A communication from Joseph Juste Chatelain, of Nancy, in the Empire of France.* *Letters Patent sealed.*

JOHNSON.
10th October 1856.

2377. WILLIAM JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Civil Engineer, for an invention for—"Improvements in the manufacture of fulminating powder."—*A communication from Jean Delavo, of Paris, in the Empire of France.* *Provisional protection only.*

GATTY.
10th October 1856.

2378. FREDERICK ALBERT GATTY, of Accrington, in the County of Lancaster, Manufacturing Chemist, for an invention for—"Certain improvements in dyeing." *Letters Patent sealed.*

M'INNES.
10th October 1856.

2379. JOHN M'INNES, of Liverpool, in the County of Lancaster, Oil Merchant, for an invention for—"An improved surface mineral coating for protecting iron and other substances, and an improved vehicle or varnish by which it is applied, and which varnish may be used with or without the addition of other substances." *Letters Patent sealed.*

RENNIE.
10th October 1856.

2380. WILLIAM RENNIE the younger, of Lagan Foundry, Belfast, in the Kingdom of Ireland, Engineer, for an invention for—"Improvements in the condensing apparatus of steam-engines." *Letters Patent sealed.*

M'CONNELL.
MACKENZIE.
10th October 1856.

2381. ROBERT M'CONNELL, of Glasgow, in the County of Lanark, North Britain, Bleacher, and ALEXANDER MACKENZIE, of the same place, Machinist, for an invention for—"Improvements in supplying steam-boilers with water;—part of which improvements or modifications thereof are applicable for the transmission of fluids and the indication of fluid levels under pressure." *Letters Patent sealed.*

GILBERT.
10th October 1856.

2382. TIMOTHY GILBERT, of the State of Massachusetts, of the United States of America, for an invention for—"An improved pianoforte action or string sounding mechanism."—*A communication from Daniel H. Shirley, a Citizen of the United States, the Inventor thereof.—Complete specification.* *Letters Patent sealed.*

ASHBURN.
FAIRHURST.
11th October 1856.

2383. WILLIAM HINDLE ASHBURN, of Blackburn, Cotton Spinner and Manufacturer, and JAMES FAIRHURST, of the same place, Card Master, for an invention for—"Improvements in machinery or apparatus used in the preparation of cotton or other fibrous substances for spinning." *Provisional protection only.*

WATSON.
11th October 1856.

2384. WILLIAM CASWELL WATSON, of New York, in the United States of America, for an invention for—"Improvements in sewing-machines." *Letters Patent sealed.*

SEITHEN.
11th October 1856.

2385. ANTON BRUNO SEITHEN, of 12, Alpha Place, Caledonian Road, London, in the County of Middlesex, Engineer, for an invention for—"Improvements in machinery or apparatus for cutting cork, in the processes of shaping and making stoppers of cork, and in the treatment of cork to be employed in the said processes, and to be applied to other useful purposes." *Letters Patent sealed.*

HEPPELL.
11th October 1856.

2386. GEORGE HEPPELL, of Uttoxeter, in the County of Stafford, Engineer, for an invention for—"Improvements in ventilating mines and other like places." *Letters Patent sealed.*

LATHAM.
11th October 1856.

2387. JAMES LATHAM, of Liverpool, in the County of Lancaster, Broker, for an invention for—"Registering the number of passengers by omnibuses and other vehicles and conveyances." *Provisional protection only.*

NEWTON.
11th October 1856.

2388. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"A new gaseous liquid to be used in generating motive-power."—*A communication.* *Letters Patent sealed.*

VARNELL.
11th October 1856.

2389. GEORGE WILLIAM VARNELL, Assistant Professor, Royal Veterinary College, Camden Town, for an invention for—"Improvements in mounting troughs, mangers, and apparatus used for feeding horses and other animals." *Letters Patent sealed.*

SCHEURMANN.
11th October 1856.

2390. GUSTAV SCHEURMANN, of Newgate Street, in the City of London, Music Publisher, for an invention for—"Improvements in printing music when type is employed." *Letters Patent sealed.*

ADOR.
ABBADIE.
11th October 1856.

2391. LÉOPOLD ADOR, Chemist, and EDOUARD ABBADIE, Manufacturer, both of Paris, in the Empire of France, for an invention for—"Improvements in the manufacture of colours from metals, and in the furnaces or apparatus for the same." *Letters Patent sealed.*

ELLIOT.
13th October 1856.

2392. GEORGE ELLIOT, of Newcastle-upon-Tyne, for an invention for—"Improvements in the production of oxydes of manganese." *Letters Patent sealed.*

JOHNS.
13th October 1856.

2393. CHARLES SIDNEY JOHNS, of Barnard's Inn, Holborn, in the County of Middlesex, for an invention for—"Improvements in machinery or apparatus for preparing pulp suitable for the manufacture of paper." *Provisional protection only.*

TODD.
TODD.
13th October 1856.

2394. WILLIAM TODD, and JACOB TODD, of Heywood, in the County of Lancaster, Spinners and Manufacturers, for an invention for—"Certain improvements in power-looms for weaving." *Letters Patent sealed.*

KISCH.
13th October 1856.

2395. BENJAMIN KISCH, of Kennington, in the County of Surrey, Gentleman, for an invention for—"An apparatus for containing an arrangement of cards or papers for selection."—*A communication.* *Provisional protection only.*

MONIJ.
13th October 1856.

2396. CLAUDE EUGÈNE MONIJ, Mechanician, of Paris (France), for an invention for—"An improved mode of transmitting motive-power."—*Provisional protection only.*

PIATTI.
13th October 1856.

2397. GIOVANNI BATTISTA PIATTI, of Genoa, in the Kingdom of Sardinia, for an invention for—"Improvements in the production of ice." *Letters Patent sealed.*

ROSCOW.
13th October 1856.

2398. JOHN ROSCOW, of Radcliff, in the County of Lancaster, Drysalter, for an invention for—"Certain improvements in machinery or apparatus for cutting or rasping dye-woods." *Letters Patent sealed.*

STEPHEN.
13th October 1856.

2399. JOHN STEPHEN, of Glasgow, in the County of Lanark, North Britain, Mill Manager, for an invention for—"Improvements in steam-boilers and furnaces." *Letters Patent sealed.*

SUMNER.
14th October 1856.

2400. RICHARD SUMNER, of Droylesden, in the County of Lancaster, Overlooker, for an invention for—"Certain improvements in power-looms for weaving." *Letters Patent sealed.*

KNOWLES. 14th October 1856.

2401. JOHN KNOWLES, junior, of Saint Helen's, in the County of Lancaster, Mining Engineer, for an invention for—"An improved apparatus for the prevention of accidents in winding from mines, which apparatus is also applicable for other similar purposes." *Letters Patent sealed.*

BREMNER. 14th October 1856.

2402. SAMUEL BREMNER, of the Town and County of Newcastle-upon-Tyne, Stationer, for an invention for—"Improvements in pouches or envelopes, and in machinery or apparatus for manufacturing or producing the same."—*Letters Patent sealed.*

BROOMAN. 14th October 1856.

2403. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent Agent, for an invention for—"An improved method of and composition for splitting or rending rock, stone, and earth."—*A communication from Messieurs Murtineddu and Company, of Marseilles.* *Letters Patent sealed.*

CRESSEY. 14th October 1856.

2404. THOMAS STOKES CRESSEY, of High Street, Homerton, in the County of Middlesex, Engineer, for an invention for—"Improvements in machinery for cutting, hollowing, and backing staves." *Letters Patent sealed.*

ALLEN. 14th October 1856.

2405. THOMAS ALLEN, of Clifton, in the City and County of Bristol, for an invention for—"An improvement in the manufacture of iron and other metallic bedsteads." *Letters Patent sealed.*

GUILLAUME. 15th October 1856.

2406. GEORGE GUILLAUME, of the Town and County of the Town of Southampton, Architect, for an invention for—"An apparatus for obtaining motive-power by means of water or other fluid." *Letters Patent sealed.*

WELLS. 15th October 1856.

2407. JOSEPH HENRY GEORGE WELLS, of the firm Wells & Vasserot, of 45, Essex Street, Strand, London, Patent Agent, Mechanical Draughtsman, &c., for an invention for—"Improvements in windlasses."—*A communication from Pierre Chevalier Hardoy, of St. Esprit, Department of Landes, France.—Complete specification.* *Letters Patent sealed.*

HALLEN. 15th October 1856.

2408. EDWARD HALLEN, of Cornwall Road, Lambeth, in the County of Surrey, Civil Engineer, for an invention for—"Improvements in the construction of chairs, sofas, bedsteads, and similar articles of furniture to sit or recline upon." *Letters Patent sealed.*

BURROWS. 15th October 1856.

2409. JAMES BURROWS, of Wigan, in the County of Lancaster, Engineer, for an invention for—"An improved arrangement of apparatus employed in winding coals or other minerals from mines, which said improvement is also applicable for other similar purposes." *Letters Patent sealed.*

HEYWOOD. 15th October 1856.

2410. BENNETT JOHNS HEYWOOD, of Hawley Road, Camden Town, in the County of Middlesex, Gentleman, for an invention for—"Improvements in valves for inflating air-tight bags, cushions, and other similar articles, and for drawing off liquids." *Letters Patent sealed.*

TURNER. TURNER. 15th October 1856.

2411. ARCHIBALD TURNER, and LUKE TURNER, of Leicester, Elastic Web Manufacturers, for an invention for—"An improved manufacture of elastic fabrics." *Letters Patent sealed.*

PALMER. 15th October 1856.

2412. JOHN PALMER, of Stockton-on-Tees, in the County of Durham, Agricultural Implement Dealer and Manufacturer, for an invention for—"Improved machinery for separating different kinds or qualities of seed and grain from each other." *Provisional protection only.*

HAZELDINE. 15th October 1856.

2413. GEORGE HAZELDINE, of Lant Street, Southwark, in the County of Surrey, Coachmaker, for an invention for—"Improvements in carriages requiring 'poles' between the horses or draught animals." *Letters Patent sealed.*

COLLIER. 16th October 1856.

2414. GEORGE COLLIER, of Halifax, in the County of York, Engineer, for an invention for—"Improvements in the manufacture of piled fabrics." *Letters Patent sealed.*

TOOTH. 16th October 1856.

2415. ALFRED TOOTH, of Number 14, Mincing Lane, in the City of London, Merchant, for an invention for—"An improved process for bleaching malt, whereby the colour is rendered more suitable for the brewing of pale or bright malt liquors." *Letters Patent sealed*

LEFFLER. 16th October 1856.
2416. CARL JOHAN LAURENTZ LEFFLER, of Old Broad Street, in the C London, Gentleman, for an invention for—"Improved apparatus for the casti metals." *Provisional protection*

STURGES. 16th October 1856.
2417. RICHARD FORD STURGES, of Birmingham, in the County of War Manufacturer, for an invention for—"A new or improved manufacture of roll cylinders for printing fabrics." *Letters Patent s*

WILCOX. 17th October 1856.
2418. CHARLES NAPOLEON WILCOX, of Islington, in the County of Middl Manufacturing Chemist, for an invention for—"Improvements in the preparation application of certain vegetable matters to be used in toilette soaps, pomades, and like perfumery." *Letters Patent s*

TOMBS. 17th October 1856.
2419. EDWARD TOMBS, of Islington, in the County of Middlesex, for an inve for—"An improvement in screw-propelling." *Letters Patent s*

COMMANDEUR. 17th October 1856.
2420. JOSEPH COMMANDEUR, of the Town of Lyons, in the Empire of Fr Gentleman, for an invention for—"A mechanical apparatus for regenerating the pulsive force of any motive-power." *Provisional protection*

FOGGI. 17th October 1856.
2421. FERDINANDO FOGGI, of 24, Southampton Place, New Road, in the Co of Middlesex, Professor of Mathematics, for an invention for—"Improvements i manufacture of engines driven by steam or other vapour." *Letters Patent s*

GREEN. 17th October 1856.
2422. JOHN GREEN, of No. 27, Charlotte Street, Portland Place, Marylebon the County of Middlesex, for an invention for—"An improved cooking apparatus *Letters Patent s*

ROGERS. 17th October 1856.
2423. EBENEZER ROGERS, of Abercarn, in the County of Monmouth, fo invention for—"Improvements in apparatus for the decomposition and combustio fuel." *Provisional protection*

REED. 17th October 1856.
2424. JANE ELIZABETH REED, of Southgate, in the County of Middlesex, fo invention for—"A mixture or compound for the cure of asthma, consumption, other affections of the chest or lungs." *Letters Patent s*

FONTAINEMOREAU. 17th October 1856.
2425. PETER ARMAND LE COMTE DE FONTAINEMOREAU, of 39, Rue de l'E quier, Paris, in the Empire of France, and of 4, South Street, Finsbury, Lon for an invention for—"Certain improvements in the construction of turbines." *communication.* *Letters Patent s*

FONTAINEMOREAU. 17th October 1856.
2426. PETER ARMAND LE COMTE DE FONTAINEMOREAU, of 39, Rue de l'E quier, Paris, in the Empire of France, and of 4, South Street, Finsbury, Lon for an invention for—"An improved process for purifying brandies and other alcoh products."—*A communication.* *Letters Patent s*

DRAY. 17th October 1856.
2427. WILLIAM DRAY, of Swan Lane, in the City of London, Agricult Implement Maker, for an invention for—"An improved method of and apparatus be employed in the stacking or storing of corn and other agricultural and horticult produce." *Letters Patent s*

WILSON. 17th October 1856.
2428. GEORGE WILSON, of Glasgow, in the County of Lanark, North Brit Manufacturer, for an invention for—"Improvements in power-looms." *Letters Patent s*

JEFFREY. 17th October 1856.
2429. WILLIAM JEFFREY, of Glasgow, in the County of Lanark, North Brit Packing Box Maker, for an invention for—"Improvements in machinery or appar for sawing or cutting wood." *Letters Patent s*

M'DOWALL. 17th October 1856.
2430. JOHN M'DOWALL, of Johnstone, in the County of Renfrew, North Brit Engineer, for an invention for—"Improvements in sawing or cutting wood." *Letters Patent s*

BRÉCHEUX. 17th October 1856.
2431. NAPOLEON BRÉCHEUX, of Paris, in the Empire of France, Merchant, for invention for—"Improvements in looking-glasses applicable especially for dres rooms and for other purposes." *Provisional protection o*

MORTON. 17th October 1856.
2432. GEORGE MORTON, of Keighley, in the County of York, Watchmaker, an invention for—"Improvements in escapements for chronometers and other ti keepers." *Letters Patent s*

HENLEY. 17th October 1856.

2433. THOMAS FREDERICK HENLEY, of Bromley, in the County of Middlesex, for an invention for—"The employment of certain substances not hitherto made use of for the production of alcoholic spirits, and for the manufacturing of the same, the refuse material being applicable as a food for cattle." *Provisional protection only.*

NEWTON. 17th October 1856.

2434. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improvements in the manufacture of tufted pile fabrics."—*A communication.* *Letters Patent sealed.*

GOSSAGE. 17th October 1856.

2435. WILLIAM GOSSAGE, of Widnes, in the County of Lancaster, Chemist, for an invention for—"Improvements in the manufacture of coal gas used for illuminating purposes." *Provisional protection only.*

SMITH. 17th October 1856.

2436. JOHN SMITH, of Kirtley, in the County of Suffolk, Engineer, for an invention for—"Improvements in heating the feed water of steam-boilers for marine and land purposes." *Letters Patent sealed.*

LISTER. TONGUE. 17th October 1856.

2437. SAMUEL CUNLIFFE LISTER, and WILLIAM TONGUE, of Bradford, in the County of York, for an invention for—"Improvements in spinning." *Letters Patent sealed.*

FRANCE. 17th October 1856.

2438. JAMES ROBERT FRANCE, of Clarence Street, Islington, in the County of Middlesex, Telegraphist, for an invention for—"Improvements in electric telegraph apparatus." *Letters Patent sealed.*

MAGNAY. WHITEHEAD. 17th October 1856.

2439. FREDERICK ARTHUR MAGNAY, of the Taverham Mills, near Norwich, and RALPH RADCLIFFE WHITEHEAD, of the Royal George Mills, Saddleworth, for an invention for—"Improvements in damping paper for printing."—*Letters Patent sealed.*

PALMER. 17th October 1856.

2440. WILLIAM PALMER, junior, of Sutton Street, Clerkenwell, in the County of Middlesex, Manufacturer, for an invention for—"Improvements in roof candle lamps for railway and other carriages." *Letters Patent sealed.*

LAWES. 17th October 1856.

2441. THOMAS LAWES, of 32, City Road, in the County of Middlesex, Feather Merchant, for an invention for—"An improved construction of agricultural implement to be used in tilling the land." *Provisional protection only.*

COLLYER. 18th October 1856.

2442. ROBERT HANHAM COLLYER, M.D., of No. 3, Park Road, Regent's Park, London, County of Middlesex, for an invention for—"Improved method of manufacturing paper." *Letters Patent sealed.*

MIRIMONDE. 18th October 1856.

2443. LEON JOSEPH POMME DE MIRIMONDE, Gentleman, of Paris, in the French Empire, for an invention for—"Certain improvements in reducing the friction of axles and axletrees of carriages on railways." *Letters Patent sealed.*

DELCAMBRE. 18th October 1856.

2444. ISIDORE DELCAMBRE, of Paris, Engineer, for an invention for—"Improvements in machines for composing and distributing type." *Letters Patent sealed.*

GEORGE. 18th October 1856.

2445. JOSEPH GEORGE, of 39, Rue de l'Echiquier, Paris, in the Empire of France, and of 4, South Street, Finsbury, London, Mechanical Engineer, for an invention for—"An improved crane." *Letters Patent sealed.*

DESHAYES. 18th October 1856.

2446. JACQUES FELIX DESHAYES, of Paris, in the Empire of France, Dyer, for an invention for—"Improvements in machinery for dyeing silk, cotton, or wool, in hanks or skeins, or woven fabrics." *Letters Patent sealed.*

BROWN. 18th October 1856.

2447. HENRY BROWN, of Halifax, in the County of York, Worsted Spinner, for an invention for—"An improvement in spinning worsted." *Provisional protection only.*

FLOCKTON. 18th October 1856.

2448. THOMAS FLOCKTON, of 4, Trafalgar Square (Office for Patents), Charing Cross, in the County of Middlesex, for an invention for—"Improvements in the consumption of smoke." *Provisional protection only.*

HUMFREY. 18th October 1856.

2449. CHARLES HUMFREY, of No. 14, The Terrace, Camberwell, in the County of Surrey, for an invention for—"Improvements in the manufacture of grease for lubricating railway axles and other machinery." *Letters Patent sealed.*

HARRISON. 20th October 1856.

2450. JOSEPH HARRISON, of Blackburn, in the County of Lancaster, Machinist, for an invention for—"Improvements in machinery for warping yarns, part of which improvements are applicable to creels used for other purposes."—*Letters Patent sealed.*

KNOWLES. 20th October 1856.

2451. Sir FRANCIS CHARLES KNOWLES, of Lovell Hill, in the County of Berks, Baronet, for an invention for—"Improvements in the manufacture of iron and steel, and in the preparation of fuel used therein." *Letters Patent sealed.*

BROOMAN. 20th October 1856.

2452. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent Agent, for an invention for—"Improvements in farthingales or petticoats."—*A communication.* *Provisional protection only.*

HUTEAU. 20th October 1856.

2453. LÉON PHILÉAS HUTEAU, of 39, Rue de l'Echiquier, Paris, in the Empire of France, and of No. 4, South Street, Finsbury, London, Gentleman, for an invention for—"An improved petticoat." *Provisional protection only.*

YOUNG. 20th October 1856.

2454. JAMES YOUNG, of South Shields, in the County of Durham, Ship Owner, for an invention for—"An improved ventilator." *Letters Patent sealed.*

BARROW. 20th October 1856.

2455. ROBERT GEORGE BARROW, of No. 15, Wade Street, Poplar, in the County of Middlesex, Engineer, for an invention for—"A self maintaining motive-power obtained from water, air, or any other fluid or liquid."—*Letters Patent sealed; specification filed 11th May 1857, by order.*

LACASSAGNE. THIERS. 20th October 1856.

2456. JOSEPH LACASSAGNE, Chemist, and RODOLPHE THIERS, Manufacturer, both of Lyons, in the Empire of France, for an invention for—"An improved electric lamp." *Letters Patent sealed.*

FORSTER. 20th October 1856.

2457. JOHN THOMAS FORSTER, of Wandsworth Road, in the County of Surrey, Mariner, for an invention for—"Improvements in the symbols used in signalling." *Letters Patent sealed.*

JENNINGS. 20th October 1856.

2458. JOSIAH GEORGE JENNINGS, of Holland Street, Blackfriars, in the County of Surrey, Engineer, for an invention for—"Improvements in the construction of wall caps, sleeper blocks for the basements of buildings, and bricks to be used as substitute for wood bricks in building." *Letters Patent sealed.*

FREEMAN. KEY. 20th October 1856.

2459. CHARLES ROBERT FREEMAN, of Eaton, Norwich, and WILLIAM DRAKE KEY, of Norwich, for an invention for—"Improvements in manufacturing food for animals." *Provisional protection only.*

LORIMIER. 20th October 1856.

2460. ANTHONY LORIMIER, of Bedford Square East, Commercial Road, in the County of Middlesex, for an invention for—"An improvement in re-working vulcanized india-rubber." *Letters Patent sealed.*

PARSONS. 20th October 1856.

2461. WILLIAM PARSONS, of Pratt Street, Lambeth, Manufacturing Engineer, for an invention for—"Improvements in generating and employing steam in steam-engines." *Provisional protection only.*

DEACON. 20th October 1856.

2462. HENRY DEACON, of Hans Place, Chelsea, in the County of Middlesex, for an invention for—"Improvements in suspending carriage bodies."—*Letters Patent sealed.*

CLAY. HARRIS. 20th October 1856.

2463. WILLIAM CLAY, of Liverpool, Iron Manufacturer, and JOSIAH HARRIS, of Dolgelly, Merionethshire, Chemist, for an invention for—"Improvements in the manufacture of iron and steel." *Letters Patent sealed.*

BRIQUELER. 21st October 1856.

2464. CHARLES BRIQUELER, fils, 22, Rue Emery, Dunkerque (France), for an invention for—"The purification, clarification, and discolouration of the cotton seed oil." *Letters Patent sealed.*

THOMPSON. CURTIS. 21st October 1856.

2465. HENRY THOMPSON, of Great Harwood, near Blackburn, in the County of Lancaster, Warper, and THOMAS CURTIS, of Blackburn aforesaid, Warper, for an invention for—"Improvements in the manufacture of healds or heddles." *Provisional protection only.*

MARTIN. 21st October 1856.

2466. JOHN COWDERY MARTIN, of Fern Cottage, Charlewood Road, Putney, in the County of Surrey, Naval Architect, for an invention for—"An improvement in glazing paper." *Letters Patent sealed.*

BLAIR. 21st October 1856.

2467. GEORGE BLAIR, of Leicester, Machinist, for an invention for—"Improvements in the manufacture of looped fabrics." *Letters Patent sealed.*

FONTAINEMOREAU. 21st October 1856.

2468. PETER ARMAND LE COMTE DE FONTAINEMOREAU, of 39, Rue de l'Echiquier, Paris, in the Empire of France, and of 4, South Street, Finsbury, London, for an invention for—"An improved knitting loom."—*A communication.* *Letters Patent sealed.*

SMITH.
21st October 1856.

2469. SPENCER SMITH, of Soho, Engineer, for an invention for—"Certain improvements in furnaces." *Provisional protection only.*

SMITH.
21st October 1856.

2470. WILLIAM SMITH, of 10, Salisbury Street, Adelphi, Civil Engineer, for an invention for—"Improvements in water level and pressure indicators and lubricators."—*A communication.* *Letters Patent sealed.*

SHAW.
21st October 1856.

2471. JOHN SHAW, Manager of Britannia Iron Works, Neithrop, Banbury, in the County of Oxford, for an invention for—"Improvements in preparing the food of cattle." *Letters Patent sealed.*

ATKINSON.
21st October 1856.

2472. ROBERT DAVISON ATKINSON, of Kingston-upon-Hull, in the Town and County of the Town of Kingston-upon-Hull, for an invention for—"Improvements in preparing and coating metallic surfaces."—*A communication.* *Provisional protection only.*

WHITEHOUSE.
LAWS.
21st October 1856.

2473. EDWARD ORANGE WILDMAN WHITEHOUSE, Gentleman, and JOSEPH CHRISTOPHER LAWS, of Brighton, in the County of Sussex, Mechanic, for an invention for—"Improvements in tools for soldering metals."—*Provisional protection only.*

THOMSON.
21st October 1856.

2474. GEORGE THOMSON, of Westbourne Green, Harrow Road, in the County of Middlesex, Mechanist, for an invention for—"Improvements in machinery for cutting or rending wood for laths and other uses." *Letters Patent sealed.*

PATTINSON.
21st October 1856.

2475. HUGH LEE PATTINSON, of Scots House, near West Boldon, in the County of Durham, Chemical Manufacturer, for an invention for—"Improvements in the treatment of certain salts and oxydes of manganese." *Provisional protection only.*

NEWTON.
21st October 1856.

2476. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improved machinery for rolling and forging iron or steel."—*A communication.* *Letters Patent sealed.*

NEWTON.
21st October 1856.

2477. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"An improvement applicable to the reefing, furling, and unfurling of sails."—*A communication.* *Letters Patent sealed.*

WEBSTER.
WEBSTER.
21st October 1856.

2478. GEORGE WEBSTER, and JAMES WEBSTER, both of Fountain Yard, Bridge-End-South, Leeds, in the County of York, Engineers, for an invention for—"Improvements in the means of opening and closing the slide valves of engines worked by steam or other power." *Provisional protection only.*

LIEBMANN.
22nd October 1856.

2479. CARL HEINRICH JULIUS WILHEM MAXIMILIAN LIEBMANN, of Fartown, Huddersfield, in the County of York, Warehouseman, for an invention for—"An improvement in purifying water."—*A communication.* *Provisional protection only.*

ERMEN.
22nd October 1856.

2480. GODFREY ERMEN, of Manchester, in the County of Lancaster, Cotton Spinner and Manufacturer, for an invention for—"Certain improvements in machinery or apparatus for the finishing and treatment of yarns or threads."—*Letters Patent sealed.*

WALTON.
22nd October 1856.

2481. FREDERICK WALTON, of Haughton Dale Mills, near Denton, in the County of Lancaster, Card Manufacturer, for an invention for—"Certain improvements in the manufacture of brushes." *Letters Patent sealed.*

POTTS.
22nd October 1856.

2482. GEORGE CHAPPELL POTTS, of New Oxford Street, in the County of Middlesex, Cooper, for an invention for—"The application of certain materials to the cleaning of casks." *Letters Patent sealed.*

HARRISON.
23rd October 1856.

2483. CHARLES WEIGHTMAN HARRISON, of Woolwich, in the County of Kent, Civil Engineer, for an invention for—"Improvements in the insulation and protection of electric conductors." *Provisional protection only.*

GRAY.
23rd October 1856.

2484. THOMAS GRAY, of The Ratcliff Works, Rose Lane, Stepney, in the County of Middlesex, Ink Manufacturer, for an invention for—"An improved drying apparatus." *Provisional protection only.*

PORTER.
23rd October 1856.

2485. JOHN FRANCIS PORTER, of 11, Park Street, Westminster, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in the manufacture of bricks and other articles of clay and brick earth or of the like materials." *Letters Patent sealed.*

JOHNS. 23rd October 1856.

2486. GEORGE EDWARD JOHNS, of No. 4, Falcon Street, in the City of London, and County of Middlesex, Box Manufacturers, for an invention for—"The application and adaptation of an optical or stereoscopic arrangement in the manufacture of boxes." *Letters Patent sealed.*

BREMER. 23rd October 1856.

2487. JOHN CHRISTIAN BREMER, of 166, Fenchurch Street, London, for an invention for—"Improvements in propellers." *Letters Patent sealed.*

MACDONALD. 23rd October 1856.

2488. JOHN MACDONALD, of No. 13, Henry Street, Upper Kennington Lane, Vauxhall, in the County of Surrey, Machinist, for an invention for—"Improvements in regulating the supply of oil or other liquids, applicable to lamps, gas-meters, and other useful purposes." *Letters Patent sealed.*

BROUGH. 23rd October 1856.

2489. NEHEMIAH BROUGH, of Birmingham, in the County of Warwick, Machinist, for an invention for—"Improvements in dress fastenings." *Letters Patent sealed.*

BISHOP. 23rd October 1856.

2490. ALBERT DEMERIT BISHOP, of Woolwich, in the County of Kent, Engineer, for an invention for—"Improved apparatus for facilitating the finding and raising of vessels and submerged articles." *Letters Patent sealed.*

HORREX. 23rd October 1856.

2491. THEOPHILUS HORREX, of South Square, Gray's Inn, in the County of Middlesex, Gentleman, for an invention for—"Improvements in fastening buttons and other similar articles on to garments and other things." *Letters Patent sealed.*

WALLEY. 23rd October 1856.

2492. JOHN WALLEY, of Derby, in the County of Derby, Boiler Maker, for an invention for—"Improvements in the means of preventing explosions of steam-boilers." *Letters Patent sealed.*

DUNNICLIFF. DEXTER. 23rd October 1856.

2493. JOHN DEARMAN DUNNICLIFF, of Hyson Green, in the County of Nottingham, Lace Manufacturer, and WALTER DEXTER, of the same place, Mechanic, for an invention for—"Improvements in warp machinery." *Letters Patent sealed.*

DESACHY. 23rd October 1856.

2494. LEONARD ALEXANDER DESACHY, of Great Marlborough Street, in the County of Middlesex, for an invention for—"Improvements in producing architectural mouldings, ornaments, and other works of art formed with surfaces of plaster or cement." *Letters Patent sealed.*

ATHAWES. 23rd October 1856.

2495. EDWIN ALLAN ATHAWES, of 63, Blackfriars Road, in the County of Surrey, for an invention for—"An improvement in the construction of forks for forking land." *Letters Patent sealed.*

GWYNNE. 24th October 1856.

2496. JAMES EGLESON ANDERSON GWYNNE, of Essex Wharf, Essex Street, Strand, in the County of Middlesex, for an invention for—"Improvements in the manufacture of carbon or charcoal powder for various useful purposes." *Provisional protection only.*

BAILEY. 24th October 1856.

2497. ISAAC BAILEY, Bookkeeper, of Bradford, in the County of York, for an invention for—"Improvements in machinery for spinning wool, cotton, alpaca, mohair, and other fibrous materials." *Letters Patent sealed.*

WHITE. 24th October 1856.

2498. GEORGE WHITE, of Bromley, in the County of Middlesex, Brewer, for an invention for—"An improvement in the treatment of grain in order to produce starch and spirit therefrom." *Letters Patent sealed.*

BROOMAN. 24th October 1856.

2499. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent Agent, for an invention for—"An improved oil for burning in lamps, and an improved burner and chimney."—*A communication. Provisional protection only.*

WOODFORD. 24th October 1856.

2500. WILLIAM WOODFORD, of Taunton, in the County of Somerset, Gentleman, for an invention for—"The prevention or cure of smoky chimneys." *Letters Patent sealed.*

STRUTHERS. 24th October 1856.

2501. ROBERT STRUTHERS, of Holyhead, in the County of Anglesea, Engineer, for an invention for—"Improvements in machinery or apparatus for transmitting motive-power." *Letters Patent sealed.*

MILLS. 24th October 1856.

2502. WILLIAM MILLS, of Congreve Street, Birmingham, in the County of Warwick, Carpenter, for an invention for—"Certain improvements in apparatus for cleansing or removing the soot from chimneys." *Provisional protection only.*

HOLDEN. 24th October 1856.

2503. HOWARD ASHTON HOLDEN, of Bingley Hall Works, Birmingham, in the County of Warwick, Railway Carriage Furniture and Lamp Manufacturer, for an invention for—"Improvements in furniture for railway and other carriages, and which said improvements are also applicable as a means of finishing or ornamenting the iron parts of harness and other articles made of iron to which such mode of finish or ornamenting has not heretofore been applied." *Letters Patent sealed.*

MANGIN. 24th October 1856.

2504. LOUIS AUGUSTE MANGIN, of 39, Rue de l'Echiquier, Paris, in the Empire of France, and of 4, South Street, Finsbury, London, for an invention for—"A self-acting door spring." *Letters Patent sealed.*

BAXTER. 24th October 1856.

2505. SAMUEL BAXTER, of the Minories, in the City of London, Ships' Ironmonger, for an invention for—"Improvements in chain wheels or barrel and stoppers to be used for raising and lowering weights by means of chains." *Provisional protection only.*

ANCIAUME. 24th October 1856.

2506. CHARLES ANCIAUME, Organ Maker, of No. 15, Quay Bourbon, in the City of Paris, for an invention for—"Improvements in musical organs both sedentary and portable." *Provisional protection only.*

ERNST. LORBERG. 25th October 1856.

2507. GUSTAVUS ERNST, of the City of Manchester, in the County of Lancaster, Engraver and Printer, and WILLIAM LORBERG, of the same place, Manufacturing Chemist, for an invention for—"An improved mode or method of raising or producing designs, patterns, or impressions, on the surfaces of plates, blocks, or rollers, and transferring or imparting the same to paper, parchment, woven fabrics, leather, or other similar materials." *Provisional protection only.*

BENSON. 25th October 1856.

2508. WILLIAM BENSON, of Four Stones, near Hexham, in the County of Northumberland, Coal Owner and Lime Burner, for an invention for—"Improvements in apparatus for drying grain, seeds, and other substances." *Letters Patent sealed.*

FARRINGTON. COMBER. 25th October 1856.

2509. CHARLES JAMES FARRINGTON, of Hampstead, in the County of Middlesex, Carpenter, and WILLIAM COMBER, of the same place, Licensed Victualler, for an invention for—"Improvements in means or apparatus for giving alarm in case of attempted burglaries." *Provisional protection only.*

SEXTON. 25th October 1856.

2510. JOSEPH SEXTON, of Leicester Square, in the County of Middlesex, Gentleman, for an invention for—"Improvements in the construction of caustic holders, applicable also to the holding of leads, chalks, and other marking materials." *Provisional protection only.*

BACHHOFFNER. 25th October 1856.

2511. GEORGE HENRY BACHHOFFNER, of Upper Montague Street, in the County of Middlesex, Doctor of Physics, for an invention for—"Improvements in glass shades for gas and other artificial lights." *Letters Patent sealed.*

HOCHSTAETTER. 25th October 1856.

2512. HEINRICH HOCHSTAETTER, of Darmstadt, for an invention for—"Improvements in obtaining instantaneous light." *Provisional protection only.*

OSMAN. 25th October 1856.

2513. HENRY FORFAR OSMAN, of 33, Essex Street, Strand, County of Middlesex, Gentleman, for an invention for—"An improved contrivance for distending the skirts of ladies' dresses and preserving the required form and shape thereof."—*A communication.* *Letters Patent sealed.*

BROWN. 25th October 1856.

2514. THOMAS BROWN, of Fenchurch Street, in the City of London, for an invention for—"Improvements in capstans and windlasses."—*Provisional protection only.*

FERREY. 27th October 1856.

2515. BENJAMIN FERREY, of Trinity Place, Charing Cross, Architect, for an invention for—"An improvement in producing ornamental plastering or stucco work." *Letters Patent sealed.*

BIRKIN. 27th October 1856.

2516. JOHN BIRKIN, of West Bridgeford, in the County of Nottingham, for an invention for—"Improvements in dressing and cleaning wheat and other grain." *Provisional protection only.*

FORBES. 27th October 1856.

2517. HUGO FREDERICK FORBES, of Florence, Tuscany, and of 45, Essex Street, Strand, London, Gentleman, for an invention for—"An improved copying press." *Provisional protection only.*

FORDRED. 27th October 1856.

2518. JOHN FORDRED, of Islington, in the County of Middlesex, Gentleman, for an invention for—"Improvements in lamps, in apparatus connected therewith, and in manufacturing certain liquids for the production of light."—*Partly a communication.* *Provisional protection only.*

ALLAN.
27th October 1856.

2519. THOMAS ALLAN, of Adelphi Terrace, in the City of Westminster, Engineer, for an invention for—"Improvements in the permanent way of railways."
Letters Patent sealed.

FENTON.
27th October 1856.

2520. JAMES FENTON, of Low Moor, near Bradford, in the County of York, Engineer, for an invention for—"An improved method of and signal apparatus for preventing accidents on railways." *Letters Patent sealed.*

SCHÄFER.
SCHÄFER.
27th October 1856.

2521. PHILIPP SCHÄFER, and FREDERICK SCHÄFER, both of Brewer Street, in the County of Middlesex, Manufacturers, for an invention for—"An improved handle for desks, deed and despatch boxes, bags, furniture, and other articles to which handles are applied." *Provisional protection only.*

NEWTON.
27th October 1856.

2522. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improved means of economizing the waste heat of furnaces or fireplaces."—*A communication.*
Provisional protection only.

DOGNIN.
27th October 1856.

2523. MICHEL DOGNIN, of Lyons, in the Empire of France, Merchant, for an invention for—"Improvements in machinery for making lace or net."
Letters Patent sealed.

BRODIE.
28th October 1856.

2524. WILLIAM BRODIE, of Belhaven, in the County of East Lothian, North Britain, Brick and Tile Manufacturer, for an invention for—"Improvements in the manufacture or production of roofing tiles." *Letters Patent sealed.*

SIMPSON.
28th October 1856.

2525. EDWARD THORNHILL SIMPSON, of the Calder Soap Works, Wakefield, in the County of York, Soap Maker, for an invention for—"Improvements in the manufacture of soap." *Provisional protection only.*

RAGON.
28th October 1856.

2526. ADOLPHE ERNEST RAGON, of Bernard Street, Russell Square, in the County of Middlesex, for an invention for—"Improvements in apparatus for indicating and recording the speed of ships."—*A communication from Lambert Alexandre.*
Letters Patent sealed.

LOSH.
28th October 1856.

2527. WILLIAM SEPTIMUS LOSH, of Wreay Syke, in the County of Cumberland, Esquire, for an invention for—"Improvements in the preparation of size, which may also be used as a waterproof varnish or coating." *Letters Patent sealed.*

MARIE.
28th October 1856.

2528. JEAN LOUIS MARIE, Manufacturer, of Paris, in the French Empire, for an invention for—"Improvements in raising, propelling, and forcing water and other fluids, and in obtaining motive-power." *Letters Patent sealed.*

GILBEE.
28th October 1856.

2529. WILLIAM ARMAND GILBEE, of No. 4, South Street, Finsbury, London, and 39, Rue de l'Echiquier, Paris, in the Empire of France, Patent Agent, for an invention for—"Improvements in the construction of smoke consuming furnaces."—*A communication.* *Letters Patent sealed; no specification filed.*

ARMSTRONG.
28th October 1856.

2530. JOSEPH ARMSTRONG, of Normanton, in the County of York, Engineer, for an invention for—"Improvements in the permanent way of railways."
Letters Patent sealed.

RUSSELL.
28th October 1856.

2531. SAMUEL RUSSELL, of 12, Sheaf Gardens, Sheffield, in the County of York, Britannia Metal Manufacturer, for an invention for—"Improvements in the manufacture of tea-pot handles, knobs, door plates, finger plates, razor scales, and knife handles." *Letters Patent sealed.*

CHEETHAM.
28th October 1856.

2532. JAMES KINDER CHEETHAM, of Rochdale, in the County of Lancaster, Doctor of Medicine, for an invention for—"Improvements in the manufacture of iron and steel." *Provisional protection only.*

AUBRIL.
28th October 1856.

2533. ADOLPHE AUBRIL, of Newman Street, Oxford Street, in the County of Middlesex, Chemist, for an invention for—"The novel application of a certain root to the manufacture of starch, paper, and cardboard." *Letters Patent sealed.*

ROBINSON.
29th October 1856.

2534. RICHARD ROBINSON, of Eccles New Road, Pendlebury, in the County of Lancaster, Engineer, for an invention for—"An improvement or improvements in machinery or apparatus for sizing, dressing, finishing, and polishing yarns or threads."
Provisional protection only.

HAMPSON. 29th October 1856.

2535. RICHARD HAMPSON, of Rochdale, in the County of Lancaster, Cotton Spinner, for an invention for—"Improvements in lubricating steam-engines." *Provisional protection only.*

GARNETT. 29th October 1856.

2536. THOMAS GARNETT, of Low Moor, Clitheroe, in the County of Lancaster, Cotton Spinner and Manufacturer, for an invention for—"Improvements in the manufacture of paste or size for sizing, stiffening, or otherwise preparing cotton and linen yarns and woven fabrics." *Provisional protection only.*

WYCHE. 29th October 1856.

2537. THOMAS EYRE WYCHE, of Camberwell, in the County of Surrey, Gentleman, for an invention for—"A method of disengaging metals from the matrix."—*Partly a communication.* *Provisional protection only.*

FAURE. 29th October 1856.

2538. LOUIS ADOLPHE FAURE, Mechanician, of Paris, in the Empire of France, and of 45, Essex Street, Strand, London, for an invention for—"An improved pump." *Letters Patent sealed.*

SALT. 29th October 1856.

2539. THOMAS CLUTTON SALT, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"A new or improved method of coating with glass or enamelling surfaces of cast iron." *Letters Patent sealed.*

JOHN. 29th October 1856.

2540. THOMAS JOHN, of the City of Pesth, in Hungary, in the Empire of Austria, and now residing at Rue de la Bourse, 3, in Paris, Empire of France, Mechanician, for an invention for—"A new electric telegraph apparatus for writing." *Letters Patent sealed.*

HENZELL. 29th October 1856.

2541. THOMAS SMITH HENZELL, of South Shields, in the County of Durham, Ship Owner, for an invention for—"Improvements in the construction of ships or vessels." *Letters Patent sealed.*

THOMPSON. 29th October 1856.

2542. ARTHUR JAMES THOMPSON, of the firm of Nancey, Thompson and Son, Brush Makers, of Birmingham, in the County of Warwick, for an invention for—"An improved gum pot and brush, and which said pot and brush are also applicable for holding and using liquid glue, paste, or other adhesive materials, as well as varnish, paint, and such like fluids, which are liable to dry up by the action of the air." *Provisional protection only.*

KOPKE. 29th October 1856.

2543. WILLIAM KOPKE, of Hackney, in the County of Middlesex, Gentleman, for an invention for—"An improved clasp-board to hold documents for reference." *Letters Patent sealed.*

DE JONGH. 29th October 1856.

2544. CHARLES DE JONGH, of Lautenbach, near Guebwiller, in the Empire of France, Manufacturer, for an invention for—"An improved method of and machinery for combing and preparing silk, flax, and other fibrous substances." *Letters Patent sealed.*

FAIRBAIRN. NEWTON. 29th October 1856.

2545. PETER FAIRBAIRN, of Leeds, in the County of York, Machine Manufacturer, and ROBERT NEWTON, of Liverpool, in the County Palatine of Lancaster, Gentleman, for an invention for—"Improvements in machinery for dressing waste silk." *Letters Patent sealed.*

WHITAKER. 29th October 1856.

2546. FREDERIC WHITAKER, of 4, Canonbury Road, Lower Road, Islington, for an invention for—"Improvements in apparatus for supplying water to steam-boilers." *Letters Patent sealed.*

WAY. 29th October 1856.

2547. JOHN THOMAS WAY, of Welbeck Street, in the County of Middlesex, for an invention for—"Improvements in obtaining light by electricity."—*Letters Patent sealed.*

WHITTEMORE. 29th October 1856.

2548. DAVID H. WHITTEMORE, of Worcester, Massachusetts, in the United States of America, for an invention for—"An improved machine for paring, slicing, and coring fruit or vegetables." *Letters Patent sealed.*

MACALLUM. 29th October 1856.

2549. JOHN MACALLUM, of the Kames Gunpowder Mills, in the County of Argyle, North Britain, for an invention for—"Improvements in the preparation or refining of saltpetre." *Provisional protection only.*

MAY. 30th October 1856.

2550. WILLIAM MAY, of the City of London, Merchant, for an invention for—"Improvements in steam-engine indicators."—*A communication.* *Letters Patent sealed.*

TORASSA. 30th October 1856.

2551. CONSTANTINE JOHN BAPTIST TORASSA, of Genoa, for an invention for—"An apparatus for calculating the speed of vessels at sea as well as obtaining the extent of their destination caused by the side winds." *Letters Patent sealed.*

HOLCROFT. 30th October 1856.

2552. HENRY HOLCROFT, of 39, Rue de l'Echiquier, Paris, in the Empire of France, and of No. 4, South Street, Finsbury, London, for an invention for—"An improved steam-engine specially applicable to agricultural operations."
Letters Patent sealed.

GIBBON. 30th October 1856.

2553. JOHN GIBBON, of Northfleet, in the County of Kent, Clerk, for an invention for—"Improvements in chaff-cutting machines." *Provisional protection only.*

SIMPSON. SPENCER. 30th October 1856.

2554. JAMES SIMPSON, of Rochdale, in the County of Lancaster, Manufacturer, and HENRY SPENCER, of the same place, Agent, for an invention for—"Improvements in lubricating steam-engines." *Provisional protection only.*

URION. 30th October 1856.

2555. LOUIS URION, of Nancy, in the Empire of France, Manufacturer, for an invention for—"Improvements in match boxes or holders." *Letters Patent sealed.*

FERGUSON. 31st October 1856.

2556. CHARLES AUGUSTUS FERGUSON, of Mill Wall, Poplar, in the County of Middlesex, Mast Maker, for an invention for—"Improvements in preparing timber for ship building, mast making, and other purposes."
Letters Patent sealed; no specification filed.

LAWSON. 31st October 1856.

2557. JOHN LAWSON, of 2, Morris Place, Glasgow, for an invention for—"Improvements in the manufacture of pile and other fabrics." *Letters Patent sealed.*

GOODFELLOW. 31st October 1856.

2558. BENJAMIN GOODFELLOW, of Hyde, in the County of Chester, Engineer, for an invention for—"Certain improvements in the construction of steam-boilers, and in the mode of supporting steam-boilers on their seatings." *Letters Patent sealed.*

DE CHAVANON. 31st October 1856.

2559. DIDIER ELIZABETH ERNEST AUSSET DE CHAVANON, of Paris, and of 45, Essex Street, Strand, London, for an invention for—"Improvements in cleaning all sorts of cloth fabrics and skins by the application of a substance so called carburine."
Provisional protection only.

MATTHEWS. 31st October 1856.

2560. FRANCIS COOK MATTHEWS, of Great Driffield, in the County of York, Manufacturing and Agricultural Chemist, for an invention for—"Improvements in preparing manure." *Letters Patent sealed.*

WORSSAM. GRIST. 31st October 1856.

2561. SAMUEL WORSSAM, of Chelsea, in the County of Middlesex, and JOHN GRIST, of Islington, in the same County, Engineer, for an invention for—"Improvements in machinery for cutting and shaping wood." *Provisional protection only.*

HUTTON. 31st October 1856.

2562. HENRY HUTTON, of Reading, in the County of Berks, Engineer, for an invention for—"Improvements in lubricators." *Letters Patent sealed.*

HUGHES. 1st November 1856.

2563. EDWARD JOSEPH HUGHES, of the City of Manchester, in the County of Lancaster, Patent Agent, for an invention for—"An improved mode or method of concentrating the colouring matter of certain vegetable substances."—*Letters Patent sealed.*

BROWNE. 1st November 1856.

2564. JOSEPH BROWNE, of Liverpool, in the County of Lancaster, Master Mariner, for an invention for—"Improvements in the construction and working of ships' windlasses and capstans;—part of which improvements are also applicable for steering ships and other vessels." *Letters Patent sealed.*

SMITH. IRVINE. 1st November 1856.

2565. PETER SMITH, of Liverpool, in the County of Lancaster, Master Mariner, and THOMAS IRVINE, of the firm of Joseph Maclean and Company, of the same place, Ship Builder, for an invention for—"Improvements in the masts, yards, and rigging of ships." *Provisional protection only.*

STOTT. 1st November 1856.

2566. BENJAMIN STOTT, of Salford, near Manchester, in the County of Lancaster, Manager, for an invention for—"Improvements in machinery or apparatus for spinning and doubling cotton, wool, flax, or other fibrous materials."
Provisional protection only.

YOUNG. 1st November 1856.

2567. JOHN YOUNG, of Wolverhampton, in the County of Stafford, Manufacturer, for an invention for—"Improvements in flooring-cramps and lifting-jacks."
Letters Patent sealed; no specification filed.

PARBERY. 1st November 1856.

2568. JOHN PARBERY, Saddler and Harness Maker, of Northampton, in that County, for an invention for—"Certain improvements in horse collars."
Letters Patent sealed.

SINCLAIR. 1st November 1856.

2569. JAMES COUL SINCLAIR, of Elgin, in the County of Moray, North Britain, Accountant, for an invention for—"Improvements in treating, preparing, and drying agricultural produce." *Letters Patent sealed.*

COOK. 1st November 1856.

2570. THOMAS AINSLEY COOK, of the Walker Alkali Works, Newcastle-on-Tyne, Manufacturing Chemist, for an invention for—"Improvements in treating manganese ores." *Letters Patent sealed.*

WARNE. 1st November 1856.

2571. JOHN WARNE, of Blackfriars Road, in the County of Middlesex, Beer Engine Manufacturer, for an invention for—"Improvements in beer-engines." *Provisional protection only.*

STONE. 1st November 1856.

2572. JOSIAH STONE, of Park Terrace, New Cross, in the County of Kent, Engineer, for an invention for—"Improvements in the construction of force pumps." *Letters Patent sealed.*

MOORE. 1st November 1856.

2573. WILLIAM HENRY MOORE, of 3, Wenlock Place, City Road, Middlesex, for an invention for—"Improvements in railway signals." *Provisional protection only.*

CURTIS. 1st November 1856.

2574. WILLIAM JOSEPH CURTIS, of 1, Sebbon Street, Islington, Civil Engineer, for an invention for—"Improvements in lighting and ventilating railway carriages." *Letters Patent sealed.*

JOBSON. 3rd November 1856.

2575. JOHN JOBSON, of Litchurch, in the County of Derby, Iron Founder, for an invention for—"Improvements in the manufacture of railway chairs." *Provisional protection only.*

TEARNE. RICHMOND. 3rd November 1856.

2576. SAMUEL TEARNE, Japanner, of Birmingham, in the County of Warwick, and GEORGE WILLIAM RICHMOND, Artist, also of Birmingham, in the same County, for an invention for—"Certain improvements in producing ornamental designs on the surfaces of fancy and other goods made of papier-mâché, wood, glass, china, earthenware, tin, iron, or other such like materials, the surfaces of which when made up are usually finished by staining, varnishing, painting, or japanning."—*Letters Patent sealed.*

NASMYTH. WILSON. 3rd November 1856.

2577. JAMES NASMYTH, and ROBERT WILSON, both of Patricroft, near the City of Manchester, Engineers, for an invention for—"Improvements in hydraulic pumps and presses for packing cotton and other articles of the like nature." *Letters Patent sealed.*

MIDDLETON. 3rd November 1856.

2578. SAMUEL MIDDLETON, of No. 15, Porter Street, Newport Market, in the County of Middlesex, for an invention for—"Improvements in the manufacture of certain articles of leather, without seams." *Letters Patent sealed.*

WHITE. 3rd November 1856.

2579. JOHN WHITE, of Glasgow, in the County of Lanark, Merchant, for an invention for—"Improvements in preparing for spinning cotton and other fibrous substances." *Letters Patent sealed.*

CADET. 3rd November 1856.

2580. EUGÈNE NAPOLÉON CADET, of 36, Rue Folie Méricourt, Paris, France, Manufacturer, for an invention for—"Improvements in the construction of cocks and taps." *Letters Patent sealed.*

SCOTT. 3rd November 1856.

2581. EBENEZER ERSKINE SCOTT, of Dundee, for an invention for—"Improvements in stereoscopes." *Letters Patent sealed.*

WESTLY. 3rd November 1856.

2582. WILLIAM KING WESTLY, of Leeds, in the County of York, Flax Machinist, for an invention for—"An improved method of and machinery for heckling, combing, drawing, and preparing fibrous substances, for spinning." *Letters Patent sealed.*

KIRKHAM. 3rd November 1856.

2583. JOHN KIRKHAM, of Tonbridge Place, New Road, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in the construction of furnaces, ovens, or kilns, for drying, baking, or burning pottery, earthenware, bricks, tiles, or other similar articles, and in the means of collecting and condensing the smoke, gases, or vapours evolved from the fuel in such or other furnaces or fireplaces, or that escapes from the retorts and other parts of the apparatus used in the manufacture of gas." *Provisional protection only.*

MURGATROYD. 4th November 1856.

2584. JOSHUA MURGATROYD, of Stockport, in the County of Chester, Engineer, for an invention for—"Improvements in machinery or apparatus for spinning, cleaning, doubling, and throwing silk, part of which improvements are applicable to machinery for roving and doubling cotton and other fibrous substances." *Letters Patent sealed; no specification filed.*

BESSEMER.
4th November 1856.

2585. HENRY BESSEMER, of Queen Street Place, New Cannon Street, in the City of London, for an invention for—"Improvements in the manufacture of rails or railway bars and axles." *Letters Patent sealed.*

CAMPBELL.
4th November 1856.

2586. ETHAN CAMPBELL, of Boston, of the State of Massachusetts, of the United States of America, for an invention for—"A new and useful or improved apparatus for propelling a navigable vessel." *Letters Patent sealed.*

GRAY.
TATE.
4th November 1856.

2587. WILLIAM GRAY, and JOHN TATE, of Newcastle-on-Tyne, Joiners, for an invention for—"Improvements in apparatus for washing." *Letters Patent sealed.*

JESSOP.
4th November 1856.

2588. JOSEPH JESSOP, of Westgate, Bradford, in the County of York, for an invention for—"Improvements in machinery for washing, wringing, and mangling." *Letters Patent sealed.*

COTTON.
4th November 1856.

2589. SAMUEL COTTON, of Broughton, near Manchester, in the County of Lancaster, Machinist, for an invention for—"An improved mode or method of regulating or governing lift, tilt, or other hammers worked by mechanical power." *Letters Patent sealed.*

NEWTON.
4th November 1856.

2590. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improved machinery for rimming and tapping gas fittings."—*A communication.* *Letters Patent sealed.*

NEWTON.
4th November 1856.

2591. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improved machinery for sweeping floors, streets, and walks."—*A communication.* *Provisional protection only.*

DE MONTENAY DU MINHY.
4th November 1856.

2592. ANDRÉ JACQUES ISAAC DE MONTENAY DU MINHY, of the Town of Blois, in the Empire of France, Gentleman, for an invention for—"Improvements in screw hand presses."—*A communication from Pierre Samaine, of Meusnes (France).* *Letters Patent sealed.*

WEILD.
5th November 1856.

2593. WILLIAM WEILD, of the City of Manchester, in the County of Lancaster, Machinist, for an invention for—"Improvements in velvet or cut pile fabrics, and in looms or machinery used for weaving such velvet and other loop pile fabrics." *Letters Patent sealed.*

URION.
5th November 1856.

2594. LOUIS URION, of Nancy, in the Empire of France, Manufacturer, for an invention for—"Improvements in machinery for the manufacture of matches and match boxes." *Letters Patent sealed.*

WILEY.
5th November 1856.

2595. WILLIAM EDWARD WILEY, of 34, Great Hampton Street, Birmingham, Pen and Pencil Manufacturer, for an invention for—"Improvements in pen holders." *Letters Patent sealed.*

TITTERTON.
5th November 1856.

2596. CHARLES TITTERTON, of Roehampton, in the County of Surrey, for an invention for—"Improvements in the manufacture of zinc and zinc white." *Letters Patent sealed.*

FERNIHOUGH.
FARROW.
5th November 1856.

2597. JAMES FERNIHOUGH, of Dukinfield, in the County of Chester, Boiler Maker and Iron Founder, and ROBERT FARROW, of Leek, in the County of Stafford, Engineer, for an invention for—"A self-acting apparatus for regulating the supply of atmospheric air to furnaces, gas stoves, and other closed vessels used for the consumption of fuel or combustible gases, by preventing the formation of smoke therefrom, and thereby economizing such fuel or combustible gases." *Letters Patent sealed.*

NEWTON.
5th November 1856.

2598. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in steam-engines."—*A communication.* *Letters Patent sealed.*

CLISSOLD.
5th November 1856.

2599. WILLIAM CLISSOLD, of Dudbridge, in the County of Gloucester, Engineer, for an invention for—"Improved apparatus for regulating the supply of water to water-wheels." *Letters Patent sealed.*

KEELING.
5th November 1856.

2600. HERBERT KEELING, of the King and Queen Iron Works, Rotherhithe, in the County of Surrey, Engineer, for an invention for—"An improvement in rivetting fish joints and other parts of the permanent way of railways." *Letters Patent sealed.*

HILL.
5th November 1856.

2601. HENRY HILL, of Stepney, in the County of Middlesex, Lock Maker, for an invention for—"An improvement in locks for bags and other like articles."
Provisional protection only.

BRINDLEY.
5th November 1856.

2602. WILLIAM BRINDLEY, of Moorgate Street, in the City of London, Paper Manufacturer, for an invention for—"Improvements in the preparation of paper hangings and other ornamental papers." *Provisional protection only.*

SIEVIER.
5th November 1856.

2603. ROBERT WILLIAM SIEVIER, of Upper Holloway, in the County of Middlesex, now residing in Rue de Cerf, Brussels, in the Kingdom of Belgium, for an invention for—"An improvement in the mode of treating saccharine juices in the manufacture of sugar." *Provisional protection only.*

STANLEY.
5th November 1856.

2604. JOHN STANLEY, Mechanical Engineer, of 244, Whitechapel Road, in the Parish of Saint Mary, Whitechapel, in the County of Middlesex, for an invention for—"Improvements in the construction of and mode of applying cranes and other machines to hoisting, suspending, and lowering purposes, also in generating, transmitting, and applying motive-power to the same." *Provisional protection only.*

SEED.
RYDER.
5th November 1856.

2605. WILLIAM SEED, of Preston, in the County of Lancaster, Spindle and Flyer Maker, and WILLIAM RYDER, of Bolton-le-Moors, in the County of Lancaster, Spindle and Flyer Maker, for an invention for—"Improvements in certain parts of machinery for slubbing and roving cotton and other fibrous materials."
Letters Patent sealed.

HOLDWAY.
5th November 1856.

2606. FREDERIC HOLDWAY, of Bayswater, in the County of Middlesex, for an invention for—"Improvements in the manufacture of candles."
Provisional protection only.

BLACKWELL.
5th November 1856.

2607. WILLIAM BLACKWELL, of Settle, in the County of York, Agriculturalist, for an invention for—"Improvements in ploughs." *Provisional protection only.*

BROWNE.
5th November 1856.

2608. MANNOR BROWNE, of the Strand, in the County of Middlesex, Commission Agent, for an invention for—"Certain improvements in shirts."
Provisional protection only.

COLLIER.
5th November 1856.

2609. GEORGE COLLIER, of Halifax, in the County of York, for an invention for—"Improvements in drying, stretching, and polishing or finishing yarns."
Letters Patent sealed.

STEVENS.
FITCH.
6th November 1856.

2610. GEORGE HENRY STEVENS, of 14, Stafford Row, Pimlico, in the County of Middlesex, and ROBERT FITCH, of South Lambeth, in the County of Surrey, for an invention for—"Improvements in locking and unlocking jars, bottles, and other vessels, and making such vessels air tight." *Letters Patent sealed.*

LA CABRA.
6th November 1856.

2611. JOSEPH LA CABRA, of Albany Street, in the County of Middlesex, Piano-forte Maker, for an invention for—"Improvements in the action of piano-fortes."
Letters Patent sealed.

HUNTER.
6th November 1856.

2612. COLIN HUNTER, of Islandreagh, in the County of Antrim, Ireland, Bleacher, for an invention for—"Improvements in effecting the operations of drying, heating, and ventilating." *Provisional protection only.*

PARKER.
6th November 1856.

2613. JOSEPH PARKER, of Blackburn, in the County of Lancaster, Grocer and Tea Dealer, for an invention for—"Certain improvements in machinery or apparatus for roasting coffee or for other similar purposes." *Provisional protection only.*

OLLEY.
6th November 1856.

2614. WILLIAM HENRY OLLEY, of Number 2, Brabant Court, Philpot Lane, in the City of London, Wine Merchant, for an invention for—"Improvements in obtaining photographic impressions or pictures of microscopic objects."
Letters Patent sealed.

WEBSTER.
6th November 1856.

2615. JAMES WEBSTER, of Birmingham, in the County of Warwick, Engineer, for an invention for—"A new or improved instrument or apparatus for transmitting hydrostatic and pneumatic pressure, which said instrument or apparatus is applicable to pressure gauges, safety valves, thermometers, pumps, and other like machines."
Letters Patent sealed.

CATO.
MILLER.
AUDLEY.
6th November 1856.

2616. PETER CATO, JOHN MILLER, junior, and JOHN AUDLEY, of Brunswick Dock, Liverpool, for an invention for—"Improvements in the manufacture of ships' knees." *Letters Patent sealed.*

BROOMAN. 6th November 1856.

2617. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, for an invention for—"Improvements in the manufacture of cranked axles and shafts."—*A communication from C. Russery.* ***Letters Patent sealed.***

CHAPMAN. BOWYER. 6th November 1856.

2618. FREDERIC CHAPMAN, of Piccadilly, in the City of Westminster, Gentleman, and CHARLES BOWYER, of Davies Street, in the County of Middlesex, Gentleman, for an invention for—"A method of purifying and disinfecting intestines, and manufacturing gelatine therefrom." ***Letters Patent sealed.***

DIRCKS. 7th November 1856.

2619. HENRY DIRCKS, of Moorgate Street, in the City of London, Engineer, for an invention for—"Improvements in the preparation and application of the materials for making worts and washes, in brewing, distilling, and like operations, and in the apparatus connected with the same." ***Letters Patent sealed.***

PORECKY. 7th November 1856.

2620. ALEXANDER PORECKY, of Hackney, in the County of Middlesex, Gentleman, for an invention for—"Improvements in the construction of safety match or lucifer boxes." ***Provisional protection only.***

OLLIS. 7th November 1856.

2621. THOMAS OLLIS, junior, of Liverpool, in the County of Lancaster, Engineer and Machinist, for an invention for—"Improvements in machinery or apparatus for cutting paper, card-board, mill-board, scale-board, leather, and other substances of a light nature." ***Provisional protection only.***

SPENCE. 7th November 1856.

2622. WILLIAM SPENCE, of 50, Chancery Lane, in the County of Middlesex, Patent Agent, for an invention for—"Improvements in apparatus used in the manufacture of silk and other fibrous materials."—*A communication from Justin Louis Auguste Aubenas, of Valréas, in the Department of Vaucluse, in the Empire of France, Silk Throwster.* ***Letters Patent sealed.***

CASARTELLI. CASARTELLI. CASARTELLI. 7th November 1856.

2623. JOSEPH LOUIS CASARTELLI, of Manchester, in the County of Lancaster, and ANTHONY CASARTELLI, and LOUIS CASARTELLI, of Liverpool, in the same County, Engineering Instrument Makers, for an invention for—"Certain improved apparatus for ascertaining the density of water in marine steam-boilers or generators, for the purpose of preventing saline incrustation." ***Provisional protection only.***

HOLT. BENTLEY. 7th November 1856.

2624. AMOS HOLT, and JABEZ BENTLEY, of Cardigan Mill, East Ardsley, near Wakefield, in the County of York, for an invention for—"Improvements in machinery for weaving stuff and other goods." ***Letters Patent sealed.***

VUITTON. 7th November 1856.

2625. LOUIS JOSEPH VICTOR VUITTON, of Paris, in the Empire of France, Mechanician, for an invention for—"An improved apparatus for consuming smoke." ***Letters Patent sealed.***

DICKINSON. 8th November 1856.

2626. JAMES DICKINSON, of Blackburn, in the County of Lancaster, Cotton Spinner, for an invention for—"Improvements in machinery or apparatus used in the preparation of cotton or other fibrous substances for spinning."—***Letters Patent sealed.***

BERTRAM. M'NIVEN. 8th November 1856.

2627. GEORGE BERTRAM, of Edinburgh, in the County of Midlothian, Engineer, and WILLIAM M'NIVEN, Manager, Polton Mill, Lasswade, of the same County, for an invention for—"Improvements in the manufacture of paper."—***Letters Patent sealed.***

HUXTABLE. 8th November 1856.

2628. LAWFORD HUXTABLE, of Number 56, St. Michael's Hill, in the City and County of Bristol, Professor of Music, for an invention for—"Improvements in pianofortes." ***Provisional protection only.***

PORTER. 8th November 1856.

2629. WILLIAM PORTER, of No. 9, Lansdowne Villas, Brompton, Middlesex, Civil Engineer, for an invention for—"Improvements in the grinding of cements and other substances, and in the construction of millstones for the same." ***Letters Patent sealed.***

GOSSAGE. 8th November 1856.

2630. WILLIAM GOSSAGE, of Widnes, in the County of Lancaster, Chemist, for an invention for—"Improvements in the manufacture of carbonates of zinc, of iron, and of manganese, and in the useful application of such carbonates." ***Letters Patent sealed.***

VAUGHAN. VAUGHAN. VAUGHAN. 8th November 1856.

2631. CHARLES VAUGHAN, of Birmingham, in the County of Warwick, and WILLIAM JAMES VAUGHAN, of Birmingham aforesaid, and RICHARD VAUGHAN, of Birmingham aforesaid, Manufacturers and Copartners, for an invention for—"A new or improved strap or band for working stamps, raising weights, and transmitting power generally." ***Letters Patent sealed.***

REID.
8th November 1856.

2632. ARCHIBALD REID, of Sidmouth Street, Regent Square, County of Middlesex, Mineralogist, for an invention for—"Improvements in treating iron so as to render it impervious to continuous oxydation." *Provisional protection only.*

MORPHET.
8th November 1856.

2633. WILLIAM MORPHET, of Leeds, in the County of York, Cloth Finisher, for an invention for—"Improvements in producing the velvet pile and witney finish in cloths, and in machinery or apparatus for the same." *Letters Patent sealed.*

JORDAN.
8th November 1856.

2634. LEWIS JACOB JORDAN, of Berners Street, in the County of Middlesex, Gentleman, for an invention for—"A medicine for the cure of venereal affections and generative debility,—the Treisemar." *Provisional protection* NOT *granted.*

ALAUX.
8th November 1856.

2635. JEAN BAPTISTE EDOUARD VICTOR ALAUX, of No. 2, Rue St. Etienne Bonne-Nouvelle, in the City of Paris, Householder, for an invention for—"A lubricating composition." *Letters Patent sealed; no specification filed.*

WALKER.
8th November 1856.

2636. THOMAS WALKER, of Balderstone, in the Parish of Rochdale, in the County of Lancaster, Card Maker, for an invention for—"An improved method of lubricating the interior of the cylinders of steam-engines, for reducing the friction of the pistons thereof." *Provisional protection only.*

BROOMAN.
8th November 1856.

2637. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent Agent, for an invention for—"Improvements in preserving provisions."—*A communication from Garnier Brothers, Faucheux, Tison and Company.* *Letters Patent sealed.*

BROOMAN.
8th November 1856.

2638. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent Agent, for an invention for—"Improvements in machinery for cutting and dressing stone, marble, and similar materials."—*A communication.* *Letters Patent sealed.*

BESSEMER.
10th November 1856.

2639. HENRY BESSEMER, of 4, Queen Street Place, in the City of London, for an invention for—"Improvements in the manufacture and treatment of iron, and in the manufacture of steel." *Letters Patent sealed.*

DOLBY.
10th November 1856.

2640. EDWIN THOMAS DOLBY, of Stratford Place, Camden Town, in the County of Middlesex, Lithographic Artist, for an invention for—"Improvements in printing several colours at one time from a single stone, plate, or block." *Provisional protection only.*

BARLOW.
10th November 1856.

2641. ANDREW BARLOW, of Shirley, in the County of Hants, Brewer, for an invention for—"Improvements in mashing-apparatuses." *Letters Patent sealed.*

MANCEAUX.
VIEILLARD.
10th November 1856.

2642. FRANÇOIS JULES MANCEAUX, of Paris, in the French Empire, Manufacturer, and EUGÈNE NAPOLEON VIEILLARD, of the same place, Gunsmith, for an invention for—"An improvement in breech-loading fire-arms and ordnance." *Letters Patent sealed.*

STONES.
10th November 1856.

2643. WILLIAM STONES, of Greenhithe, in the County of Kent, Paper Manufacturer, for an invention for—"An improved mode of sizing paper." *Letters Patent sealed.*

GASKELL.
10th November 1856.

2644. PETER GASKELL, of the Parish of Sculcoates, in the Town of Kingston-upon-Hull, and County of the same Town, Steam-Engine Maker, for an invention for—"The admission of steam into the cylinders of steam-engines by an equilibrium valve." *Letters Patent sealed.*

SOMERVILLE.
10th November 1856.

2645. JAMES SOMERVILLE, of Glasgow, in the County of Lanark, North Britain, Manager, for an invention for—"Improvements in weaving."—*Letters Patent sealed.*

JOHNSON.
10th November 1856.

2646. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in apparatus for printing electro-telegraphic dispatches."—*A communication from Louis François Clement Breguet, of Paris, in the Empire of France.* *Provisional protection only.*

PEARCY.
10th November 1856.

2647. RICHARD PEARCY, of the City of Manchester, in the County of Lancaster, Machinist, for an invention for—"Improvements in machinery or apparatus for giving additional cohesiveness and torsion to fibrous substances in the drawing and other processes." *Provisional protection only.*

SMITH. 11th November 1856. **2648.** WILLIAM SMITH, of 10, Salisbury Street, Adelphi, Civil Engineer, for an invention for—"Improvements in machinery for sewing cloth and other materials."—*A communication from Edward Howard and others, of Massachusetts, United States.* *Letters Patent sealed.*

JONES. 11th November 1856. **2649.** JOHN FELL JONES, of Birmingham, in the County of Warwick, Machinist, for an invention for—"Improvements in the manufacture of rollers or cylinders for printing fabrics, and in machinery to be used in manufacturing the said rollers or cylinders." *Letters Patent sealed.*

CLARK. 11th November 1856. **2650.** WILLIAM CLARK, of 53, Chancery Lane, in the County of Middlesex, Engineer, for an invention for—"Improvements in the manufacture of barytes and strontian and their salts, and in their application to various purposes."—*A communication.* *Letters Patent sealed.*

BROOMAN. 11th November 1856. **2651.** RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent Agent, for an invention for—"Improvements in the manufacture of boots and shoes and other like articles."—*A communication from N. Gaillard, of Paris.* *Provisional protection only.*

LEADBETTER. 11th November 1856. **2652.** JAMES LEADBETTER, of Leeds, in the County of York, Brazier, for an invention for—"Improved means of obtaining motive-power." *Provisional protection only.*

CLOSSMANN. 11th November 1856. **2653.** FRANCIS FREDERICK CLOSSMANN, of 16, Park Lane, in the County of Middlesex, for an invention for—"Obtaining alcohol from certain substances not hitherto used for that purpose."—*A communication.* *Provisional protection only.*

HODGE. 11th November 1856. **2654.** PAUL RAPSEY HODGE, of No. 4, Albion Grove, Barnsbury Park, in the Parish of Islington, and County of Middlesex, for an invention for—"Improvements in the manufacture of felted cloth."—*A communication.* *Provisional protection only.*

BAINES. 11th November 1856. **2655.** HUGH BAINES, of Manchester, in the County of Lancaster, Architect, for an invention for—"Improved machinery or apparatus to be applied to hoisting and other lifting machines." *Letters Patent sealed.*

JOHNSON. 11th November 1856. **2656.** JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in projectiles."—*A communication from Gens M. Hutton, Citizen of the United States, now acting as Vice Consul for the United States, at St. Petersburg, in the Empire of Russia.* *Letters Patent sealed.*

BERNARD. 11th November 1856. **2657.** JULIAN BERNARD, of the Albany, Piccadilly, in the County of Middlesex, Gentleman, for an invention for—"Improvements in the manufacture or production of boots and shoes or coverings for the feet, and in the machinery or apparatus employed in such manufacture." *Letters Patent sealed.*

PATTERSON. 12th November 1856. **2658.** JOHN PATTERSON, of Beverley, in the County of York, Engineer, for an invention for—"Improvements in apparatus for churning, which apparatus is also applicable to the washing of roots and other substances." *Letters Patent sealed.*

LUKYN. 12th November 1856. **2659.** WILLIAM LUKYN the elder, of Broad Street, in the Town and County of the Town of Nottingham, Dentist, for an invention for—"A buffer break for railway carriages or trucks attached to locomotive engines, whether one or more engines, for the conveyance of goods or passengers." *Letters Patent sealed.*

BACHE. 12th November 1856. **2660.** GEORGE ISLINGTON BACHE, of Glasgow, in the County of Lanark, North Britain, Glass Manufacturer, for an invention for—"Improvements in lamps and apparatus for affording or supplying artificial light." *Letters Patent sealed.*

WEILD. 12th November 1856. **2661.** WILLIAM WEILD, of the City of Manchester, in the County of Lancaster, Machinist, for an invention for—"Improvements in machinery for doubling, twisting, and winding yarns or threads on to bobbins or spools." *Letters Patent sealed.*

ECCLES. 12th November 1856. **2662.** JOSEPH ECCLES, of Blackburn, in the County of Lancaster, Cotton Spinner, for an invention for—"Improvements in machinery for making bricks, tiles, pipes, and other articles made of plastic materials." *Letters Patent sealed.*

COLLETT. 12th November 1856. **2663.** HENRY COLLETT, of 12, Grosvenor Street, Saint Peter's Street, Islington, for an invention for—"Improvements in machinery for mowing and reaping." *Provisional protection only.*

BALMAIN.
COLBY.
12th November 1856.

2664. WILLIAM HENRY BALMAIN, of Saint Helen's, in the County of Lancaster, Manufacturing Chemist, and THOMAS COLBY, of Saint Helen's aforesaid, Manufacturing Chemist, for an invention for—"Improved means of grinding various substances." *Letters Patent sealed.*

MAW.
12th November 1856.

2665. ARTHUR MAW, of Broseley, in the County of Salop, Encaustic Tile Manufacturer, for an invention for—"An improved mode of constructing the eccentrics or cams of steam-engines and other machinery." *Provisional protection only.*

APPERLY.
CLISSOLD.
12th November 1856.

2666. JAMES APPERLY, Cloth Manufacturer, and WILLIAM CLISSOLD, Engineer, both of Dudbridge, in the County of Gloucester, for an invention for—"Improved apparatus for condensing wool, cotton, and other fibrous substances." *Provisional protection only.*

BOULAY.
12th November 1856.

2667. JEAN CHARLES BOULAY, of No. 34, Rue des Bernardins, in the City of Paris, in the Empire of France, for an invention for—"An improved method of printing in various colours simultaneously." *Provisional protection only.*

BROOMAN.
12th November 1856.

2668. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent Agent, for an invention for—"Improvements in the preparation of fibres for spinning, and in machinery employed therein."—*A communication from H. Hofer.* *Letters Patent sealed.*

BROOMAN.
12th November 1856.

2669. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent Agent, for an invention for—"A new or improved felted fabric."—*A communication from F. Durand.* *Provisional protection only.*

PACKMAN.
PIKE.
12th November 1856.

2670. FRANK JAMES WILSON PACKMAN, of Puckeridge, in the County of Herts, Doctor of Medicine, and CHARLES FREDERICK PIKE, of Oxford Street, in the County of Middlesex, Gentleman, for an invention for—"An armed glove or covering for the thumb and fingers." *Provisional protection only.*

GREEN.
STOREY.
12th November 1856.

2671. WILLIAM GREEN, junior, of Framwellgate Colliery, near Durham, in the County of Durham, Colliery Viewer, and THOMAS STOREY, of the same place, Engine Wright, for an invention for—"Improvements in machinery or apparatus for washing or cleaning coal." *Letters Patent sealed.*

JOHNSON.
13th November 1856.

2672. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in machinery or apparatus for cutting and folding paper."—*A communication from Cyrus Chambers, of the United States of America.* *Provisional protection only.*

TREEBY.
13th November 1856.

2673. THOMAS WRIGHT GARDENER TREEBY, of No. 1, Westbourne Terrace Villas, Westbourne Terrace North, Paddington, in the County of Middlesex, for an invention for—"Forming sewers or tunnels and gulleys to sewers." *Provisional protection only.*

DIXEY.
13th November 1856.

2674. CHARLES WASTELL DIXEY, of 3, New Bond Street, in the County of Middlesex, of the firm of C. W. Dixey & Co., Opticians, Mathematical and Philosophical Instrument Makers to Her Majesty, for an invention for—"Improvements in double opera glasses and other glasses of a similar nature." *Lettters Patent sealed.*

HUTTON.
13th November 1856.

2675. ALEXANDER HUTTON, of Ardwick, near Manchester, in the County of Lancaster, Gentleman, for an invention for—"An improved warming apparatus applicable to railway and road carriages and other useful purposes." *Letters Patent sealed.*

HOLT.
EARNSHAW.
BARLOW.
13th November 1856.

2676. THOMAS STEPHEN HOLT, of Manchester, in the County of Lancaster, Engineer, and EDWARD EARNSHAW, and JAMES BARLOW, of Rochdale, in the same County, Boiler Makers, for an invention for—"Improvements in certain parts of steam-engines, steam-boilers, and apparatus connected therewith." *Letters Patent sealed.*

NEWINGTON.
13th November 1856.

2677. SAMUEL NEWINGTON, of Ticehurst, in the County of Sussex, Doctor of Medicine, for an invention for—"Improvements in dibbling apparatus." *Letters Patent sealed.*

EARP.
13th November 1856.

2678. THOMAS EARP, of Newark-on-Trent, in the County of Nottingham, Representative of ———, Maltster and Wine Merchant, for an invention for—"A tap for measuring liquids." *Provisional protection only.*

FRANCIS. HOOPER. 13th November 1856.

2679. WILLIAM FRANCIS, and JAMES HOOPER, Leather Factors, of 88, Leadenhall Street, in the City of London, for an invention for—"Improvements in tanning and dyeing leather, linen, cotton, wool, hair, and silk, and fabrics composed of any of these substances." *Provisional protection only.*

KINNIBURGH. 13th November 1856.

2680. JOHN KINNIBURGH, of the Town and County of Renfrew, North Britain, Foundry Manager, for an invention for—"Improvements in moulding or shaping metals." *Letters Patent sealed.*

COCHRANE. 14th November 1856.

2681. The Honorable WILLIAM ERSKINE COCHRANE, of No. 5, Osnaburgh Terrace, Regent's Park, in the County of Middlesex, for an invention for—"Improvements in the permanent way of railways." *Letters Patent sealed.*

FONTAINEMOREAU. 14th November 1856.

2682. PETER ARMAND LE COMTE DE FONTAINEMOREAU, of 39, Rue de l'Echiquier, Paris, in the Empire of France, and of No. 4, South Street, Finsbury, London, Patent Agent, for an invention for—"An improved method of forming letters and other devices on metallic surfaces."—*A communication.* *Provisional protection only.*

HACKING. 14th November 1856.

2683. JOSEPH HACKING, of Bury, in the County of Lancaster, Machine Maker, for an invention for—"Certain improvements in machinery for dressing, polishing, and finishing threads and yarns." *Letters Patent sealed.*

SHARP. COLLET. 14th November 1856.

2684. THOMAS BEATT SHARP, of the firm of Messieurs Sharp, Stewart, and Company, of the City of Manchester, Engineers, and JOSEPH ANTHONY COLLET, of the same place, Mechanical Draughtsman, for an invention for—"Certain improvements in locomotive steam-engines." *Letters Patent sealed; no specification filed.*

HUART. 14th November 1856.

2685. ADOLPHE EMANUEL HUART, of Southwark, in the County of Surrey, Jeweller, for an invention for—"An improved toy for the use of children." *Provisional protection only.*

EMERY. 14th November 1856.

2686. RICHARD EMERY, of No. 6, King Street, St. James' Square, in the County of Middlesex, for an invention for—"Improvements in springs for carriages and other vehicles." *Letters Patent sealed.*

EMERY. 14th November 1856.

2687. RICHARD EMERY, of No. 6, King Street, St. James' Square, in the City of Westminster, in the County of Middlesex, Gentleman, for an invention for—"Improvements in the construction of axles and boxes of carriages for common roads." *Letters Patent sealed.*

DAY. RUTTER. 14th November 1856.

2688. JOHN ROCK DAY, of Birmingham, in the County of Warwick, Machinist, and THOMAS RUTTER, of Birmingham aforesaid, Manufacturer, for an invention for—"A new or improved metallic tile for roofing or covering buildings." *Provisional protection only.*

MONEY. 14th November 1856.

2689. EDWARD MONEY, of 14, St. James' Square, in the County of Middlesex, Esquire, for an invention for—"An improved artificial manure." *Provisional protection only.*

HEU. 14th November 1856.

2690. JEAN BAPTISTE HEU, Liquidator of the Society General of Conservation, of 15, Rue St. Lazare, Paris, in the Empire of France, for an invention for—"Improvements in preserving animal and vegetable substances suitable for food."—*A communication from Charles Louis Marle.* *Provisional protection only.*

SUTHERLAND. 14th November 1856.

2691. JOHN SUTHERLAND, of Paddington, in the County of Middlesex, for an invention for—"An improved railway break." *Letters Patent sealed.*

ASH. 14th November 1856.

2692. HENRY CLARKE ASH, of 11, Park Place South, Chelsea, in the County of Middlesex, for an invention for—"Improvements in railway signals." *Provisional protection only.*

SAUL. WILLIAMS. 14th November 1856.

2693. DAN SAUL, of Swinton, in the County of Lancaster, Cotton Spinner, and PETER WILLIAMS, of the same place, Manager, for an invention for—"Certain improvements in machinery or apparatus for spinning and doubling cotton and other fibrous materials." *Provisional protection only.*

SYMINGTON. 14th November 1856.

2694. ANDREW SYMINGTON, of Kettle, in the County of Fife, North Britain, Watch Maker, for an invention for—"Improvements in apparatus for drying yarns and woven fabrics." *Letters Patent sealed.*

BINKS. 14th November 1856.

2695. CHRISTOPHER BINKS, of the City of London, in the County of Middlesex, for an invention for—"Improvements in converting iron into steel, and in giving a coating of steel to iron." *Letters Patent sealed.*

Reid. O'Neil. 14th November 1856.	**2696.** Archibald Reid, of Sidmouth Street, Regent Square, Mineralogist, and Charles O'Neil, of Golden Square, both in the County of Middlesex, for an invention for—"Improvements in treating metallic ores to obtain copper." *Letters Patent sealed.*
Crawley. 14th November 1856.	**2697.** John Crawley, of Wood Street, Cheapside, in the City of London, Collar Manufacturer, for an invention for—"Improved machinery for stitching fabrics." *Provisional protection only.*
Greaves. 14th November 1856.	**2698.** James Greaves, of Gerrard Street, Soho, in the County of Middlesex, Saddle Tree Manufacturer, for an invention for—"An improved construction of ladies' side saddle."—*A communication from Henry Adams, of New York.* *Letters Patent sealed.*
Aitken. 14th November 1856.	**2699.** John Aitken, of Islington, in the County of Middlesex, Gentleman, for an invention for—"Improvements in the furnaces employed in the manufacture of iron or other metals." *Provisional protection only.*
Leseure. 15th November 1856.	**2700.** Nicolas Pierre Joseph Leseure, of 39, Rue de l'Echiquier, Paris, in the Empire of France, and of No. 4, South Street, Finsbury, London, Gentleman, for an invention for—"An improved embroidering machine." *Letters Patent sealed.*
Fox. 15th November 1856.	**2701.** Henry Hawes Fox, of No. 17, College Hill, in the City of London, for an invention for—"Improvements in manufacturing brushes." *Letters Patent sealed.*
Hoare. 15th November 1856.	**2702.** Deane John Hoare, of Mortimer Street, Cavendish Square, Gentleman, for an invention for—"Improvements in the manufacture of iron." *Provisional protection only.*
Mushet. 15th November 1856.	**2703.** Robert Mushet, of Colefort, in the County of Gloucester, Metallurgist, for an invention for—"Improvements in the manufacture of iron." *Letters Patent sealed.*
Barclay. 15th November 1856.	**2704.** Andrew Barclay, of Kilmarnock, in the County of Ayr, North Britain, Engineer, for an invention for—"Improvements in the manufacture of iron." *Letters Patent sealed.*
Davies. 15th November 1856.	**2705.** George Davies, of the Office for Patents, 1, Serle Street, Lincoln's Inn, in the County of Middlesex, Civil Engineer, for an invention for—"An improved paper suitable for the filtration of liquids, the dressing of wounds, and for the manufacture of envelopes, bags, bands, and for other similar purposes."—*A communication from Jean Alphonse Pichot & Pierre Prosper Malapert, both of Poitiers, in the Empire of France.* *Letters Patent sealed.*
Billing. 15th November 1856.	**2706.** John Billing, of Abingdon Street, Westminster, in the County of Middlesex, Architect, for an invention for—"Improvements in chimneys." *Letters Patent sealed.*
Pye. 15th November 1856.	**2707.** George Pye, of Ipswich, for an invention for—"An improvement in treating and bleaching cotton." *Letters Patent sealed.*
Blackburn. 15th November 1856.	**2708.** Henry Blackburn, of Butterworth Hall, near Rochdale, in the County of Lancaster, Manager, for an invention for—"Improvements in billies and mules for slubbing and spinning wool, cotton, or other fibrous materials." *Provisional protection only.*
Drew. 15th November 1856.	**2709.** John Drew, of Back Hill, in the County of Middlesex, Cabinet Maker, for an invention for—"Improvements in library tables or desks."—*Letters Patent sealed.*
Robinson. Lister. Stevenson. 15th November 1856.	**2710.** Nathan Robinson, Overlooker, John Lister, Mechanic, and Henry Stevenson, Pattern Maker, all of Bradford, in the West Riding of the County of York, for an invention for—"Improvements in looms for weaving." *Provisional protection only.*
Binks. 15th November 1856.	**2711.** Christopher Binks, of the City of London, in the County of Middlesex, for an invention for—"Improvements in the manufacture of iron and steel." *Letters Patent sealed.*
Cope. 17th November 1856.	**2712.** Thomas Cope, of Liverpool, in the County Palatine of Lancaster, Cigar Manufacturer, for an invention for—"Improvements in tobacco cutting machines." *Provisional protection only.*

ECKMAN.
17th November 1856.

2713. ALEXANDRE MARIE JOSEPH ECKMAN, of the Town of Lille, France, Gentleman, for an invention for—"A mechanical bakery and cookery."
Letters Patent sealed.

WORTHINGTON.
17th November 1856.

2714. JOSEPH WORTHINGTON, of Manchester, for an invention for—"An improved mode of signalling from the guard to the engine-driver on railway trains."
Provisional protection only.

MICHEL.
MARET.
17th November 1856.

2715. CONSTANTIN MICHEL, of Lyons, France, and ISIDORE ANTOINE MARET, of Paris, France, for an invention for—"Making atmospherical observations."
Provisional protection only.

HAWKES.
17th November 1856.

2716. WILLIAM HAWKES, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"New or improved machinery for applying steam power to the ploughing of land and other agricultural operations."—*Provisional protection only.*

BLANCHON.
17th November 1856.

2717. ESTEVES BLANCHON, of Blois, in the Empire of France, Gentleman, for an invention for—"Machinery and apparatus for marking and boring leather and other similar substances, for making and cutting screwed pins, and for uniting leather and other similar materials."—*A communication.* *Letters Patent sealed.*

JONES.
JONES.
17th November 1856.

2718. GEORGE JONES, and JOSEPH REECE JONES, of Liverpool, in the County of Lancaster, Boat Builders, for an invention for—"An improved life-boat."
Provisional protection only.

WILSON.
18th November 1856.

2719. JOHN WILSON, of West Bromwich, in the County of Stafford, Manufacturer, for an invention for—"Improvements in springs for railway and other carriages."
Letters Patent sealed.

HEALY.
18th November 1856.

2720. WILLIAM HEALY, of No. 118, Dorset Street, Salisbury Square, County of Middlesex, Hydraulic Engineer, for an invention for—"Improvements in furnaces and boilers and hot water apparatus for heating purposes."—*Complete specification.*
Letters Patent sealed.

LISTER.
18th November 1856.

2721. SAMUEL CUNLIFFE LISTER, of Manningham, near Bradford, in the County of York, for an invention for—"Improvements in spinning."—*Letters Patent sealed.*

MAGNAY.
18th November 1856.

2722. FREDERICK ARTHUR MAGNAY, of Taverham Mills, Norwich, for an invention for—"Improvements in damping paper for printing." *Letters Patent sealed.*

BUTTERWORTH.
18th November 1856.

2723. RICHARD BUTTERWORTH, of Chelsea, in the County of Middlesex, for an invention for—"Improvements in the means of securing the ends of rails for railways."
Letters Patent sealed.

DYER.
18th November 1856.

2724. SAMUEL DYER, of the City of Bristol, Ship Owner, for an invention for—"Improved mechanism applicable to propelling ships and vessels, applicable also as power machinery for ships' purposes." *Letters Patent sealed.*

GRIEVE.
18th November 1856.

2725. JOHN GRIEVE, of Bank Park, Parish of Tranent, County of Haddington, Colliery Proprietor and Fire Clay Manufacturer, for an invention for—"Improvements in chimney cans." *Provisional protection only.*

BESSEMER.
18th November 1856.

2726. HENRY BESSEMER, of Queen Street Place, New Cannon Street, in the City of London, for an invention for—"Improvements in the manufacture of iron."
Letters Patent sealed.

BRINDLEY.
19th November 1856.

2727. WILLIAM BRINDLEY, of Moorgate Street, in the City of London, Paper Manufacturer, for an invention for—"Improvements in the treatment and application of papier-mâché for covering floors, roofs, and other like useful purposes."
Letters Patent sealed.

GILMAN.
19th November 1856.

2728. THOMAS GILMAN, of No. 12, Creed Lane, Ludgate Hill, in the City of London, for an invention for—"Improvements in boxes or packing cases."
Provisional protection only.

DISTIN.
19th November 1856.

2729. HENRY JOHN DISTIN, of No. 31, Cranbourn Street, Leicester Square, in the County of Middlesex, Musical Instrument Manufacturer, for an invention for—"Improvements in cornets and other wind musical instruments."—*A communication.*
Provisional protection only.

CHURCHILL. BRADSHAW. 19th November 1856.

2730. WILLIAM SMITH CHURCHILL, of Stalybridge, in the County of Chester, Cotton Spinner, and JAMES BRADSHAW, of the same place, Manager, for an invention for—"Improvements in machinery or apparatus for drying yarns or fabrics, applicable to machines for sizing or dressing yarns or threads to prepare them to be woven." *Provisional protection only.*

JONES. JONES. 19th November 1856.

2731. JOHN JONES, of Middlesborough-on-Tees, in the County of York, Engineer, and EDWARD JONES, of Liverpool, in the County of Lancaster, for an invention for—"Improvements in the manufacture or production and treatment of metal castings." *Letters Patent sealed.*

LORD. 19th November 1856.

2732. JOHN LORD, of Rochdale, in the County of Lancaster, Flannel Manufacturer, for an invention for—"An improved admixture or compound to be employed as a substitute for oil in the treatment of animal wool preparatory to carding." *Letters Patent sealed.*

EARL of CAITHNESS. 19th November 1856.

2733. JAMES EARL OF CAITHNESS, of Barrogill Castle, in the County of Caithness, North Britain, for an invention for—"Improvements in driving belts, straps, or bands, for machinery, and in the application and use thereof." *Provisional protection only.*

NEWTON. 19th November 1856.

2734. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"An improvement in centrifugal pumps."—*A communication.* *Letters Patent sealed.*

HINDLE. 19th November 1856.

2735. THOMAS HINDLE, of Blackburn, in the County of Lancaster, Manufacturer, for an invention for—"Improvements in the manufacture of textile fabrics." *Letters Patent sealed.*

WATSON. SATTERTHWAITE. 19th November 1856.

2736. GEORGE WATSON, of Manchester, and CORNELIUS SATTERTHWAITE, of Preston, in the County of Lancaster, for an invention for—"Improvements in the manufacture of fire lighters." *Letters Patent sealed.*

YEARSLEY. 19th November 1856.

2737. JAMES YEARSLEY, of Saville Row, St. James', in the County of Middlesex, Member of the Royal College of Surgeons, for an invention for—"An improved method of and instrument for applying artificial tympanums." *Provisional protection only.*

WATSON. WILLIAMS. 19th November 1856.

2738. ALFRED WATSON, and ALFRED HAMLYN WILLIAMS, of Cornhill, in the City of London, Dressing Case Manufacturers, for an invention for—"An improved cap or top for scent-bottles." *Letters Patent sealed.*

FOX. 19th November 1856.

2739. SAMUEL FOX, of Deepcar, Sheffield, for an invention for—"Improvements in machinery for drawing wire and tubes." *Letters Patent sealed.*

DE MILLY. 19th November 1856.

2740. LOUIS ADOLPHE DE MILLY, of Paris, in the Empire of France, Manufacturer, for an invention for—"Improvements in the manufacture of fatty acids." *Letters Patent sealed.*

FOX. 19th November 1856.

2741. SAMUEL FOX, of Deepcar, Sheffield, for an invention for—"Improvements in heating steel wire and tubes, also ribs and stretchers of umbrellas and parasols, for hardening, and in apparatus for straightening wire and tubes."—*Letters Patent sealed.*

SALT. 20th November 1856.

2742. EDWIN SALT, of Bolton-le-Moors, in the County Palatine of Lancaster, Engineer and Millwright, for an invention for—"An improved paper-cutting machine." *Provisional protection only.*

GILBERT. 20th November 1856.

2743. JAMES MONTGOMERY GILBERT, of the City of Manchester, Engraver, for an invention for—"Improvements in certain machines for etching or engraving." *Letters Patent sealed.*

IRLAM. PHILLIPS. 20th November 1856.

2744. WILLIAM IRLAM, of the Gibraltar Iron Works, Newton Heath, near the City of Manchester, Engineer, and JOHN PHILLIPS, of the same place, Railway Station Master, for an invention for—"Improvements in working railway signals or alarums." *Provisional protection only.*

FONTAINEMOREAU. 20th November 1856.

2745. PETER ARMAND LE COMTE DE FONTAINEMOREAU, of 39, Rue de l'Echiquier, Paris, in the Empire of France, and 4, South Street, Finsbury, London, for an invention for—"Improved apparatus for preparing carbonic acid gas and impregnating liquids therewith."—*A communication.* *Letters Patent sealed.*

FONROBERT. 20th November 1856.

2746. CHARLES FRANÇOIS JULES FONROBERT, of Berlin, in the Kingdom of Prussia, for an invention for—"Improvements in the manufacture of boots and shoes."—*Partly a communication.* *Provisional protection only.*

FONROBERT. 20th November 1856.

2747. CHARLES FRANÇOIS JULES FONROBERT, of Berlin, in the Kingdom of Prussia, for an invention for—"Improvements in the manufacture of insulated wires for electric telegraphs."—*Partly a communication.* *Provisional protection only.*

JOYCE. 20th November 1856.

2748. THOMAS FRANCIS JOYCE, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"Improvements in joining, supporting, and strengthening the rails of railways." *Letters Patent sealed.*

MORGAN. 20th November 1856.

2749. WILLIAM MORGAN, of 48, Gloucester Terrace, Hyde Park, in the County of Middlesex, for an invention for—"Improvements in heating parts of cylinders and other hollow bodies of iron, to a welding heat." *Letters Patent sealed.*

BENSON. 20th November 1856.

2750. ROBERT BROCK BENSON, of New York, in the United States of America, Master Mariner, for an invention for—"Improvements in reefing sails." *Letters Patent sealed.*

BROOMAN. 20th November 1856.

2751. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent Agent, for an invention for—"A method of and certain varnishes or compositions for rendering wood and other substances uninflammable and fire-proof, applicable also to the indurating of calcareous earths and stone, and to the rendering of paper and fabrics damp proof, together with apparatuses for manufacturing such compositions."—*A communication from Madame Boulard.* *Letters Patent sealed.*

EATON. 20th November 1856.

2752. RICHARD EATON, of No. 2, Sussex Terrace, New Road, Battersea, in the County of Surrey, Engineer, for an invention for—"Improvements in apparatus for buffing on railways and for other purposes." *Letters Patent sealed.*

DARTOIS. 21st November 1856.

2753. LOUIS DARTOIS, of 39, Rue de l'Echiquier, Paris, in the Empire of France, and of 4, South Street, Finsbury, London, Middlesex, for an invention for—"An improved machine for the cleansing of textile and fibrous substances." *Letters Patent sealed.*

DE BERGEVIN. 21st November 1856.

2754. AUGUSTE MATHIEU MAURICE DE BERGEVIN, of Sermon Lane, in the City of London, Chemist, for an invention for—"A method or methods of purifying coal without decarbonisation." *Provisional protection only.*

NORMAN. 21st November 1856.

2755. JOHN NORMAN, of Liverpool, in the County of Lancaster, Merchant, for an invention for—"Improvements in propelling navigable vessels." *Provisional protection only.*

LIEBMANN. 21st November 1856.

2756. CARL HEINRICH JULIUS WILHEM MAXIMILIAN LIEBMANN, of Fartown, Huddersfield, in the County of York, Warehouseman, for an invention for—"Improvements in the purification of water and in the preparation of materials employed therein."—*A communication.* *Provisional protection only.*

CLARE. 21st November 1856.

2757. JOHN WILLIAM CLARE, of White Street, in the Parish of St. George the Martyr, in the County of Surrey, for an invention for—"Improvements in preventing, removing, consuming, and condensing smoke and noxious vapours, and in apparatus for those purposes." *Letters Patent sealed.*

TOOTH. 21st November 1856.

2758. CHARLES TOOTH, of Burton-upon-Trent, Brewer, for an invention for—"Improvements in charging or filling and filling up casks or other vessels for containing fermenting liquids." *Letters Patent sealed.*

LUDEWIG. 21st November 1856.

2759. FRÉDÉRIC LUDEWIG, of Paris, in the Empire of France, Chemist, for an invention for—"An improved leaven." *Letters Patent sealed.*

ROTHENHEIM. 21st November 1856.

2760. SIGMUND ROTHENHEIM, of the City of London, Umbrella and Walking Stick Manufacturer, for an invention for—"An improved walking-stick pipe." *Provisional protection only.*

NEWTON. 21st November 1856.

2761. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in machinery for spinning or twisting fibrous substances."—*A communication.* *Letters Patent sealed.*

JACOBS. 21st November 1856.

2762. WILLIAM JACOBS, of Albert Road, Globe Fields, Mile End, in the County of Middlesex, for an invention for—"An improved composition for bedding and rendering bricks in furnaces." *Letters Patent sealed.*

BARRANS. 21st November 1856.

2763. JOSEPH BARRANS, of New Cross, in the County of Surrey, for an invention for—"Improvements in apparatus for applying oil or lubricating fluid to the axles of railway carriages and locomotive engines." *Letters Patent sealed.*

RUSSELL. 21st November 1856.

2764. SAMUEL RUSSELL, of Darnley Terrace, Gravesend, for an invention for—"Improvements in the construction of scissors and shears." *Letters Patent sealed.*

BROOMAN. 21st November 1856.

2765. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent Agent, for an invention for—"A method of and preparation for rendering textile and other like fabrics sanitary and disinfecting agents."—*A communication from J. Ledoyen, and J. Beaulavon.* *Letters Patent sealed.*

GARTON. PARSONS. 21st November 1856.

2766. CHARLES GARTON, of the City of Bristol, Brewer, and JAMES ST. JOHN GAGE PARSONS, of the same City, Member of the Royal College of Surgeons, for an invention for—"A method of treating cane sugar in order to fit it to be employed in brewing and distilling." *Letters Patent sealed.*

ROBERTS. DALE. PRITCHARD. 21st November 1856.

2767. THOMAS ROBERTS, and JOHN DALE, both of Manchester, in the County of Lancaster, Manufacturing Chemists, and JOHN DANIELL PRITCHARD, of Warrington, in the said County, Chemist, for an invention for—"Improvements in obtaining and purifying oxalate of soda, which improvements are also applicable to the manufacture of oxalic acid." *Letters Patent sealed.*

CLARK. 21st November 1856.

2768. ALEXANDER CLARK, of Gate Street, Lincoln's Inn Fields, in the County of Middlesex, Engineer, for an invention for—"Improvements in the application and construction of revolving window shutters and blinds, and metal window sashes." *Letters Patent sealed.*

HENLEY. 22nd November 1856.

2769. WILLIAM THOMAS HENLEY, of St. John Street Road, Clerkenwell, Telegraph Engineer, for an invention for—"Improvements in electric telegraphs and apparatus connected therewith." *Letters Patent sealed.*

GALLOWAY. 22nd November 1856.

2770. GEORGE BELL GALLOWAY, of 42, Basinghall Street, in the City of London, late of Chili, in South America, Engineer and Ship Owner, for an invention for—"Improvements in furnaces for steam-boilers and other uses." *Provisional protection only.*

TERRY. 22nd November 1856.

2771. ALEXANDER ROBERT TERRY, of No. 24, Great George Street, Westminster, Civil Engineer, for an invention for—"Improvements in sawing, splitting, cutting, and binding kindling wood." *Letters Patent sealed.*

HALL. 22nd November 1856.

2772. WILLIAM KEMBLE HALL, Engineer, of the City of London, for an invention for—"Improvements in machinery for cutting, punching, and shaping metals." *Provisional protection only.*

TUCKER. 22nd November 1856.

2773. EDWARD TUCKER, of Belfast, in the County of Antrim, Ireland, Starch Manufacturer, for an invention for—"Improvements in preparing and drying glue and gelatinous matter." *Letters Patent sealed.*

WHEELER. 22nd November 1856.

2774. JOSEPH WHEELER, of Wootton-under-Edge, in the County of Gloucester, Gentleman, for an invention for—"A method of converting rotary into reciprocating motion, especially applicable to machinery for forcing plastic substances through moulds and dies." *Letters Patent sealed.*

BROOMAN. 22nd November 1856.

2775. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent Agent, for an invention for—"Improvements in the manufacture of artificial wines, or beverages to be substituted for wines, and in apparatus for aiding fermentation."—*A communication.* *Letters Patent sealed.*

WRIGHT. 22nd November 1856.

2776. JOHN SKIRROW WRIGHT, of Birmingham, Manufacturer, for an invention for—"Improvements in the manufacture of paper or papier-mâché and metal buttons." *Letters Patent sealed.*

LAYCOCK. 22nd November 1856.

2777. WILLIAM EDWARD LAYCOCK, of Sheffield, in the County of York, Manufacturer, for an invention for—"Improvements in looms for weaving." *Letters Patent sealed.*

CHADWICK. FROST. 22nd November 1856.

2778. DAVID CHADWICK, of Salford, in the County of Lancaster, Gentleman, and HERBERT FROST, of Manchester, in the said County, Machinist, for an invention for —"Improvements in apparatus for measuring water and other fluids and gas." *Provisional protection only.*

NEWTON. 22nd November 1856.

2779. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Certain improvements in railway carriages."—*A communication.* *Letters Patent sealed.*

HUNT. 24th November 1856.

2780. EDMUND HUNT, of Glasgow, in the County of Lanark, North Britain, Mechanical Engineer, for an invention for—"Improvements in looms for weaving ornamental fabrics." *Provisional protection only.*

SALT. 24th November 1856.

2781. GEORGE SALT, of Saltaire, in the County of York, Manufacturer, for an invention for—"Improvements in weaving carpets and other piled fabrics." *Letters Patent sealed.*

BROADLEY. 24th November 1856.

2782. JAMES BROADLEY, of Saltaire, in the County of York, Overlooker to Messrs. Titus Salt, Sons, & Co., of Saltaire, for an invention for—"Improvements in weaving." *Letters Patent sealed.*

MARTIN. 24th November 1856.

2783. JAMES KENNEDY MARTIN, of Dundee, in the County of Forfar, North Britain, Ship Builder, for an invention for—"Improvements in hoisting or purchase apparatus for ships and vessels." *Provisional protection only.*

COOKE. 24th November 1856.

2784. MASTA JOSCELIN COOKE, of 45, Dean Street, Newcastle-on-Tyne, Commission Agent, for an invention for—"Certain improvements in washing, wringing, and mangling machines." *Provisional protection only.*

LEWSEY. 24th November 1856.

2785. CHARLES JOHN LEWSEY, of Albion Terrace, Commercial Road East, in the County of Middlesex, Engineer, for an invention for—"Improvements in sugar cane mills." *Letters Patent sealed.*

ASTON. HOPKINSON. 24th November 1856.

2786. WILLIAM HENRY ASTON, and SAMUEL HOPKINSON, of Zetland Mill, Huddersfield, for an invention for—"Improvements in steam-boiler furnaces, and apparatus employed for supplying water to steam-boilers."—*Provisional protection only.*

BRICKLEY. 24th November 1856.

2787. HENRY BRICKLEY, of Stratton, near Cirencester, in the County of Gloucester, Miller, for an invention for—"Improvements in mills for grinding." *Letters Patent sealed.*

HEINKE. 24th November 1856.

2788. CHARLES EDWIN HEINKE, of Great Portland Street, in the County of Middlesex, Submarine Engineer, for an invention for—"Improved apparatus for illuminating objects beneath the surface of water, or for giving light in mines and other places where combustible or explosive gases exist." *Letters Patent sealed.*

ORR. 24th November 1856.

2789. JOHN ORR, of Glasgow, in the County of Lanark, North Britain, Weaving Foreman, for an invention for—"Improvements in the manufacture of pile fabrics." *Letters Patent sealed.*

SHARP. ELDER. 24th November 1856.

2790. GEORGE SHARP, of Jarrow, in the County of Durham, Millwright, and WILLIAM ELDER, of the same place, Engine Smith, for an invention for—"Improvements in steam hammers and machinery for forging iron and other substances." *Provisional protection only.*

BOND. 25th November 1856.

2791. JOHN BOND, of Burnley, in the County of Lancaster, Machine and Tool Maker, for an invention for—"Improvements in machinery for counting and indicating the number of revolutions performed by rollers and shafts."—*Provisional protection only.*

BRAGG. 25th November 1856.

2792. HENRY BRAGG the younger, of Belfast, in the County of Antrim, in Ireland, Commission Agent, for an invention for—"Improvements in drying or extracting moisture from air, and in machinery or apparatus for starching, clearing, drying, stretching, and finishing fabrics." *Letters Patent sealed.*

BOUGLEUX. 25th November 1856.

2793. HENRY BOUGLEUX, of Leghorn, for an invention for—"Improvements in the construction of steam-boilers." *Letters Patent sealed.*

BROOMAN. 25th November 1856.

2794. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent Agent, for an invention for—"Improvements in machinery for embroidering."—*A communication from Eugène Lebée, of St. Quentin.* *Provisional protection only.*

PALMER.
25th November 1856.

2795. JOHN PALMER, of Stockton-on-Tees, in the County of Durham, Agricultural Implement Dealer and Manufacturer, for an invention for—"Improved means for separating different kinds or qualities of seed or grain from each other."
Letters Patent sealed.

ELKIN.
25th November 1856.

2796. JACOB LEVI ELKIN, of Jeffreys Square, St. Mary Axe, in the City of London, Merchant, for an invention for—"An improved process applicable to the manufacture of zinc."—*A communication.* *Letters Patent sealed.*

MARSHALL.
25th November 1856.

2797. JOHN MARSHALL, junior, of Selby, in the County of York, Oil Refiner, for an invention for—"An improvement in the purifying of oils and fatty matters."
Letters Patent sealed.

NEWTON.
25th November 1856.

2798. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improved machinery for forging iron."—*A communication.* *Letters Patent sealed.*

MUSGRAVE.
26th November 1856.

2799. JOHN MUSGRAVE the younger, of the Globe Iron Works, Bolton-le-Moors, in the County of Lancaster, Iron Founder, for an invention for—"Improvements in the construction of cloth beams for beetles." *Letters Patent sealed.*

BROWN.
ADIN.
26th November 1856.

2800. JOHN BROWN, of Bolton-le-Moors, in the County of Lancaster, Machine Maker, and JOHN ADIN, of the City of Manchester, Manufacturer, for an invention for—"Certain improvements in jacquard machines." *Letters Patent sealed.*

RIANT.
26th November 1856.

2801. LÉON GERMAIN RIANT, of 39, Rue de l'Echiquier, Paris, in the Empire of France, and of No. 4, South Street, Finsbury, London, Gentleman, for an invention for—"An improved mode of preparing whalebone, gutta-percha, and other elastic bands employed in the manufacture of wearing-apparel."—*Provisional protection only.*

CLERK.
26th November 1856.

2802. FRANCIS NORTH CLERK, of Birmingham, in the County of Warwick, for an invention for—"Improvements in metallic roofing for buildings, and in appendages to roofs." *Letters Patent sealed.*

HENDERSON.
26th November 1856.

2803. MATTHEW HENDERSON, of Glasgow, in the County of Lanark, North Britain, Mason, for an invention for—"Improvements in cutting, sawing or shaping, and polishing stone." *Provisional protection only.*

BLACKWOOD.
26th November 1856.

2804. JOHN BLACKWOOD, of the Queen's Hotel, London, for an invention for—"Improvements in ships." *Provisional protection* NOT *granted.*

NEWTON.
26th November 1856.

2805. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"An improvement in the process of coating iron bolts, bars, sheets, spikes, nails, and other articles of iron, with metallic alloys, for the prevention of rusting or oxydation."—*A communication from Joseph Poleux, of New York.* *Letters Patent sealed.*

PALMER.
26th November 1856.

2806. HENRY EASTMAN PALMER, of Stonehouse, in the County of Devon, Artist, for an invention for—"Improvements in photographic apparatus."
Letters Patent sealed.

LEES.
SCHOFIELD.
27th November 1856.

2807. ASA LEES, of Oldham, in the County of Lancaster, Machine Maker, and DAVID SCHOFIELD, of the same place, Manager, for an invention for—"Certain improvements in self-acting mules for spinning and doubling." *Letters Patent sealed.*

FONTAINEMOREAU.
27th November 1856.

2808. PETER ARMAND LE COMTE DE FONTAINEMOREAU, of 39, Rue de l'Echiquier, Paris, in the Empire of France, and of No. 4, South Street, Finsbury, London, for an invention for—"Improved weighing apparatus."—*A communication.*
Letters Patent sealed.

GILBEE.
27th November 1856.

2809. WILLIAM ARMAND GILBEE, of No. 4, South Street, Finsbury, London, and 39, Rue de l'Echiquier, Paris, in the Empire of France, Patent Agent, for an invention for—"An improved mode of reefing and reducing topsails."—*A communication from Isaac Boss, of New York, United States of America.*
Provisional protection only.

WOOFE.
27th November 1856.

2810. WILLIAM WOOFE, of Weston Birt, in the County of Gloucester, Agriculturalist, for an invention for—"An implement for paring land, applicable also to the removing of turf." *Letters Patent sealed.*

HODGE.
27th November 1856.

2811. PAUL RAPSEY HODGE, of No. 4, Albion Grove, Barnsbury Park, in the Parish of Islington, and County of Middlesex, Civil Engineer, for an invention for—"Improvements in the manufacture of felted cloth." *Provisional protection only.*

HEDGELY. 27th November 1856. — **2812.** HENRY HEDGELY, of 32, New Road, Brighton, in the County of Sussex, for an invention for—" Certain improvements in spirit lamps."—*Letters Patent sealed.*

GRIFFITHS. 28th November 1856. — **2813.** ROBERT GRIFFITHS, of 69, Mornington Road, Regent's Park, Engineer, for an invention for—" Improvements in vessels and engines for propelling vessels." *Letters Patent sealed.*

WALKER. 28th November 1856. — **2814.** PETER WALKER, of Warrington, in the County of Lancaster, Brewer, for an invention for—" Improvements in brewing and in the machinery or apparatus employed therein." *Letters Patent sealed.*

HIGGIN. 28th November 1856. — **2815.** JAMES HIGGIN, of the City of Manchester, in the County of Lancaster, Manufacturing Chemist, for an invention for—" Improvements in treating certain vegetable dye stuffs or preparations therefrom, so as to obtain a colouring substance of increased purity." *Letters Patent sealed.*

TISSOT. 28th November 1856. — **2816.** CAMILLE AUGUSTE TISSOT, of 39, Rue de l'Echiquier, Paris, in the Empire of France, and of 4, South Street, Finsbury, London, Middlesex, for an invention for —" Improvements in the production of motive-power and in the apparatus connected therewith." *Letters Patent sealed.*

CELLIER. 28th November 1856. — **2817.** AUGUSTE CELLIER, of No. 39, Rue de l'Echiquier, Paris, in the Empire of France, and of 4, South Street, Finsbury, London, Middlesex, for an invention for—" An improved mucilage applicable to the sizing and printing of textile materials." *Letters Patent sealed.*

SAUNDERS. 28th November 1856. — **2818.** JOSEPH M. SAUNDERS, of Menloe Rathgar, Dublin, and 16, Westmoreland Street, Dublin, for an invention for—" Improvements in cooking-ranges." *Letters Patent sealed.*

SOURBUTS. 28th November 1856. — **2819.** HENRY TURNER SOURBUTS, of Hyde, in the County of Chester, Mechanic, for an invention for—" Improvements in taps or valves, part of which are applicable to lubricators for steam-engines and other purposes." *Letters Patent sealed.*

WALLER. 28th November 1856. — **2820.** HENRY WALLER, of Lickhill, near Calne, in the County of Wilts, for an invention for—" Improvements applicable to vessels used in the manufacture of cheese." *Letters Patent sealed.*

TURNER. 28th November 1856. — **2821.** ARCHIBALD TURNER, of Leicester, Elastic Web Manufacturer, for an invention for—" Improvements in the manufacture of elastic fabrics."—*Letters Patent sealed.*

ALLEN. 28th November 1856. — **2822.** MICHAEL ALLEN, of 39, Cavendish Grove, Wandsworth Road, in the County of Surrey, Engineer, for an invention for—" Improvements in the slide valves of steam-engines." *Provisional protection only.*

TAYLOR. 29th November 1856. — **2823.** JOHN GEORGE TAYLOR, Merchant, of Glasgow, in the County of Lanark, for an invention for—" Improvements in pencil-cases." *Letters Patent sealed.*

SIEMENS. 29th November 1856. — **2824.** CHARLES WILLIAM SIEMENS, of John Street, Adelphi, in the County of Middlesex, for an invention for—" Improvements in fluid meters." *Letters Patent sealed.*

DRYDEN. 29th November 1856. — **2825.** JAMES DRYDEN, of Dundee, in the County of Forfar, North Britain, Manager, for an invention for—" Improvements in weaving." *Letters Patent sealed.*

JOHNSON. 29th November 1856. — **2826.** WILLIAM JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Engineer, for an invention for—" Improvements in projectiles."—*A communication from N. Scholfield, of Norwich, Connecticut, in the United States of America.* *Letters Patent sealed.*

WRIGHT. 29th November 1856. — **2827.** LEMUEL WELLMAN WRIGHT, of Sydenham, in the County of Kent, Engineer, for an invention for—" Improvements in machinery for bending plates for the formation of pipes and tubes." *Provisional protection only.*

STUART. 29th November 1856. — **2828.** LABAN CLARKE STUART, of New York, in the United States of America, for an invention for—" Improvements in machinery for reducing fibres to pulp."—*A communication from Joseph Kingsland, junior.* *Letters Patent sealed.*

BROWN. 29th November 1856. — **2829.** JOHN BROWN, of Liverpool, in the County of Lancaster, Mast Maker, for an invention for—" Improvements in the construction of the lower masts of ships." *Letters Patent sealed.*

ATKINSON.
29th November 1856.

2830. EDWIN SENIOR ATKINSON, of Knottingley, in the County of York, Manufacturing Chemist, for an invention for—"An apparatus for condensing vapours, fumes, gases, and smoke, arising from chemical and smelt works."
Provisional protection only.

CLARK.
29th November 1856.

2831. JOSEPH LATIMER CLARK, of Adelaide Road, Haverstock Hill, Hampstead, for an invention for—"Improvements in electric telegraphs."—*Partly a communication.*
Letters Patent sealed.

HARMER.
29th November 1856.

2832. RICHARD HARMER, of 12, Princes Street, Spitalfields, in the County of Middlesex, Clerk, for an invention for—"Improvements in stereoscopic pictures."
Letters Patent sealed.

WORTHINGTON.
1st December 1856.

2833. JOSEPH WORTHINGTON, of Manchester, for an invention for—"Improvements in telegraphing and communicating on railway trains."
Provisional protection only.

GILKS.
1st December 1856.

2834. CHARLES HENRY GILKS, of Union Row, Tower Hill, London, for an invention for—"An improved stand for umbrellas for railway and other carriages."
Provisional protection only.

JONES.
1st December 1856.

2835. JOHN CHRISTIAN JONES, Upholsterer, &c., of 17, Poland Street, Oxford Street, in the County of Middlesex, for an invention for—"The improvement of the common pin wooden leg and crutch." *Provisional protection only.*

GEDGE.
1st December 1856.

2836. JOHN GEDGE, of No. 4, Wellington Street South, Strand, in the County of Middlesex, Patent Agent, for an invention for—"Improvements in lubricating the journals of the axles of railway vehicles or other moving parts of machinery."—*A communication from A. Macpherson, of Brussels.* *Letters Patent sealed.*

GEDGE.
1st December 1856.

2837. JOHN GEDGE, of No. 4, Wellington Street South, Strand, in the County of Middlesex, Patent Agent, for an invention for—"Improvements in gas-meters."—*A communication from Allan Macpherson, of Brussels.* *Letters Patent sealed.*

HADDAN.
1st December 1856.

2838. JOHN COOPE HADDAN, of Cannon Row, in the City of Westminster, and County of Middlesex, for an invention for—"Improvements in pianofortes."
Letters Patent sealed.

GIBSON.
1st December 1856.

2839. JOHN GIBSON, of Paddington, in the County of Middlesex, Engineer, for an invention for—"Improvements in buffing and drawing apparatus."
Letters Patent sealed.

COLLIER.
CROSSLEY.
1st December 1856.

2840. GEORGE COLLIER, of Halifax, in the County of York, and JAMES WILLIAM CROSSLEY, of Brighouse, in the same County, for an invention for—"Improvements in apparatus used in hot pressing, and in the means of manufacturing parts of apparatus used for such purpose." *Letters Patent sealed.*

EMMONS.
1st December 1856.

2841. EDWARD JACKSON EMMONS, of the State of Massachusetts, of the United States of America, for an invention for—"A new or improved nursery chair."—*A communication from Joshua Stevens, a resident of the aforesaid State of Massachusetts.*
Letters Patent sealed.

VERTUE.
1st December 1856.

2842. GEORGE JULIUS VERTUE, of Northam, in the Town and County of the Town of Southampton, Merchant's Clerk, for an invention for—"An improvement in deodorizing sewage waters and sewage matter when lime is used."
Letters Patent sealed.

PEABODY.
1st December 1856.

2843. FRANCIS PEABODY, late of the United States of America, but now residing in St. James' Street, in the City of Westminster, for an invention for—"Improved apparatus for obtaining motive-power by the action of the wind."—*Letters Patent sealed.*

RAMSDEN.
1st December 1856.

2844. JOHN CARTER RAMSDEN, of Bradford, in the County of York, Stuff Manufacturer, for an invention for—"Improvements in apparatus or the mechanism of looms for weaving a certain class of plaids, checks, and fancy woven fabrics."
Letters Patent sealed.

BARDOT.
1st December 1856.

2845. HENRI NICOLAS DENIS BARDOT, of Paris, in the Empire of France, Chemist, for an invention for—"Improvements in treating or preparing colours for printing." *Provisional protection only.*

MONNIER.
1st December 1856.

2846. NOËL MONNIER, of Paris, in the Empire of France, Coachman, for an invention for—"Improvements in bridles and bits for stopping horses."
Letters Patent sealed.

DWYER.
ecember 1856.

2847. EDMUND DWYER, of Woolwich, in the County of Kent, Accountant, for an invention for—"Improvements in the manufacture of children's chairs."
Provisional protection only.

CORNWALL.
December 1856.

2848. FREDERICK CORNWALL, Builder, of Birmingham, in the County of Warwick, for an invention for—"Certain improvements in the construction of fireplaces applicable for general purposes, whereby combustion is rendered more perfect and capable of regulation or control, smoke thoroughly consumed, and the draught in open fireplaces much increased." *Provisional protection only.*

LONGBOTTOM.
nd December 1856.

2849. JOHN LONGBOTTOM, of Leeds, in the County of York, Gas Engineer, for an invention for—"Improvements in apparatus for drying, roasting, carbonizing, and calcining vegetable, mineral, and animal substances." *Letters Patent sealed.*

BROOMAN.
2nd December 1856.

2850. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent Agent, for an invention for—"Improvements in pumps and in pumping."—*A communication.* *Provisional protection only.*

BROOMAN.
2nd December 1856.

2851. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent Agent, for an invention for—"Improvements in bleaching."—*A communication from Henry Bouchet.* *Letters Patent sealed.*

BROOMAN.
2nd December 1856.

2852. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent Agent, for an invention for—"A chemical composition or agent to be employed in the dyeing of wools and woollens."—*A communication from Marc Lipman.* *Letters Patent sealed.*

BROOMAN.
2nd December 1856.

2853. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent Agent, for an invention for—"Improvements in pumping engines and in pumps."—*A communication.* *Letters Patent sealed.*

GIRARD.
2nd December 1856.

2854. LOUIS DOMINIQUE GIRARD, Mechanician, of Paris, Town in the French Empire, for an invention for—"Certain improvements in hydraulic turbines."
Letters Patent sealed.

FOWLER.
2nd December 1856.

2855. JOHN FOWLER, junior, of Havering, in the County of Essex, for an invention for—"Improvements in the manufacture of wire ropes."—*Letters Patent sealed.*

APPERLY.
2nd December 1856.

2856. JAMES APPERLY, of Dudbridge, in the County of Gloucester, Cloth Manufacturer, for an invention for—"An improved fabric applicable to the manufacture of feed cloths or aprons." *Provisional protection only.*

DRYDEN.
MILES.
2nd December 1856.

2857. ROBERT DRYDEN, of Kinaston Street, Lambeth, in the County of Surrey, and STEPHEN MILES, of South Terrace, Willow Walk, Bermondsey, in the same County, for an invention for—"An improvement in the construction of cylinder printing presses." *Letters Patent sealed.*

TOWNSEND.
2nd December 1856.

2858. MATTHEW TOWNSEND, of Leicester, Fancy Hosier, for an invention for—"Improvements in machinery for the manufacture of knitted fabrics."
Letters Patent sealed.

BOWER.
2nd December 1856.

2859. ALFRED BOWER, of Liverpool, in the County of Lancaster, Cotton Broker, for an invention for—"Improvements in or applicable to the keels of navigable vessels."
Provisional protection only.

THWAITES.
2nd December 1856.

2860. JOHN HALL BROCK THWAITES, of Bristol, Dentist, for an invention for—"An improved screw bolt or fastening for ship building and other purposes."
Provisional protection only.

SIEMENS.
2nd December 1856.

2861. FREDERIC SIEMENS, of 7, John Street, Adelphi, London, Engineer, for an invention for—"Improved arrangement of furnaces, which improvements are applicable in all cases where great heat is required." *Letters Patent sealed.*

MIZEN.
3rd December 1856.

2862. JAMES MIZEN, of Deptford, in the County of Kent, for an invention for—"Improvements in apparatus for making gas, partly applicable to culinary or other domestic purposes." *Letters Patent sealed.*

KÜRTEN.
3rd December 1856.

2863. PHILIPP KÜRTEN, of Cologne, in the Kingdom of Prussia, Soap Manufacturer, for an invention for—"Improvements in the manufacture of mottled soap and yellow soap." *Letters Patent sealed*

GATTY.
3rd December 1856.

2864. FREDERICK ALBERT GATTY, of Accrington, in the County of Lancaster, Manufacturing Chemist, for an invention for—"Improvements in the construction of filters or drainers." *Letters Patent sealed.*

RIDER.
3rd December 1856.

2865. EMORY RIDER, of Cannon Street, in the City of London, Gentleman, for an invention for—"Improvements in the manufacture or treatment of gutta-percha" (being improvements upon the invention secured to him by Letters Patent dated the 20th day of July, 1852). *Letters Patent sealed.*

CRABTREE.
3rd December 1856.

2866. THOMAS CRABTREE, of Halifax, in the County of York, Machine Maker, for an invention for—"Improvements in card-setting machines, and in certain machinery or apparatus employed in the construction thereof, which apparatus is also applicable to similar purposes." *Letters Patent sealed.*

BULLOUGH.
BULLOUGH.
3rd December 1856.

2867. ADAM BULLOUGH, of Blackburn, in the County of Lancaster, Manufacturer, and WILLIAM BULLOUGH, of the same place, Machinist, for an invention for—"Improvements in looms." *Letters Patent sealed.*

GENHART.
3rd December 1856.

2868. HENRY GENHART, Armourer, of the City of Liège, in the Kingdom of Belgium, for an invention for—"Improvements in fire-arms and ordnance, and of the cartridges or projectiles to be used therewith." *Letters Patent sealed.*

DENIS.
3rd December 1856.

2869. JULIEN DENIS, of 14, Queenhithe, in the City of London, for an invention for—"Improvements in apparatus for corking and uncorking bottles, without leaving any air between the liquid and the cork."—*A communication.* *Letters Patent sealed.*

DEELEY.
3rd December 1856.

2870. JOSEPH DEELEY, of Mile End Road, in the County of Middlesex, Engineer, for an invention for—"Improvements in furnaces for smelting and melting." *Letters Patent sealed.*

CHEETHAM.
3rd December 1856.

2871. JAMES KINDER CHEETHAM, of Rochdale, in the County of Lancaster, Doctor of Medicine, for an invention for—"Improvements in the application of photographic pictures to metal and other surfaces, and in rendering the same applicable as printing surfaces." *Letters Patent sealed.*

NEWTON.
3rd December 1856.

2872. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improved processes for ornamenting metallic surfaces, and for producing surfaces in intaglio or in relief, for printing purposes."—*A communication from Charles Négre, of Paris.* *Provisional protection only.*

LECOCQ.
4th December 1856.

2873. AIMÉ LECOCQ, of France, Contractor, for an invention for—"Improvements in hydraulic engines." *Provisional protection only.*

APPERLY.
CLISSOLD.
4th December 1856.

2874. JAMES APPERLY, Cloth Manufacturer, and WILLIAM CLISSOLD, Engineer, both of Dudbridge, in the County of Gloucester, for an invention for—"Improved machinery for preparing fibrous substances for spinning." *Letters Patent sealed.*

BAYER.
4th December 1856.

2875. LOUIS BAYER, of Soho, in the County of Middlesex, for an invention for—"An improved stuffing to be used in place of hair or other substances in which such articles are commonly employed." *Provisional protection only.*

LIVERMORE.
4th December 1856.

2876. ISAAC LIVERMORE, of 5, Shrubland Grove East, Queen's Road, Dalston, for an invention for—"An improvement in waterproofing paper." *Provisional protection only.*

STUART.
4th December 1856.

2877. LABAN CLARKE STUART, of New York, in the United States of America, for an invention for—"Improvements in drying sized paper."—*A communication from Joseph Kingsland, junior.* *Letters Patent sealed.*

DRAPER.
DRAPER.
4th December 1856.

2878. EBENEZER DAGGETT DRAPER, and GEORGE DRAPER, of the State of Massachusetts, of the United States of America, for an invention for—"Certain new and useful improvements in oil feeders, vessels, or cans, for oiling machinery."—*Partly a communication.—Complete specification.* *Letters Patent sealed.*

BARNARD.
LICHTENSTADT.
4th December 1856.

2879. DANIEL BARNARD, and DAVID LICHTENSTADT, of 29, High Street, Whitechapel, for an invention for—"Improvements in tanning." *Provisional protection only.*

HOLLAND.
4th December 1856.

2880. JOHN SIMON HOLLAND, of Woolwich, in the County of Kent, Engineer, for an invention for—"Improvements in the manufacture of iron, part of which is applicable to other purposes." *Provisional protection only.*

HENSON.
PALMER.
4th December 1856.

2881. WILLIAM HENSON, of Buckingham Street, Caledonian Road, Islington, in the County of Middlesex, Engineer, and HENRY PALMER, of Newman Street, Oxford Street, in the County of Middlesex, Architect and Surveyor, for an invention for—"Improvements in sewing or stitching machines." *Provisional protection only.*

BELLFORD.
4th December 1856.

2882. AUGUSTE EDOUARD LORADOUX BELLFORD, of 10, Bedford Street, Strand, London, for an invention for—"Improvements in drying, burning, and cooling bricks, tiles, and other ceramic substances."—*A communication.* *Letters Patent sealed.*

MARGUERITTE.
4th December 1856.

2883. LOUIS JOSEPH FRÉDÉRIC MARGUERITTE, of Paris, in the Empire of France, Chemist, for an invention for—"Improvements in treating or preparing materials to be used in manufacturing retorts, crucibles, bricks, and other kinds of earthenware." *Provisional protection only.*

CRAWFORD.
4th December 1856.

2884. DAVID CRAWFORD, of Glasgow, in the County of Lanark, North Britain, Manager, for an invention for—"Improvements in washing, cleansing, and preparing textile fabrics and materials." *Letters Patent sealed.*

DAVISON.
CROWTHER.
5th December 1856.

2885. ROBERT DAVISON, and JOSHUA CROWTHER, of Lansdowne Spinning and Weaving Factories, Limerick, for an invention for—"Improvements in machinery for winding yarns or thread on bobbins or pins fixed on spindles driven by gear or cogged wheels, and for winding weft for either hand or power looms." *Letters Patent sealed.*

MOORE.
5th December 1856.

2886. HENRY MOORE, of New Windsor, in the County of Berks, Dentist, for an invention for—"A boot and shoe stud." *Letters Patent sealed.*

KLOEN.
JONES.
5th December 1856.

2887. WILLIAM KLOEN, of Birmingham, in the County of Warwick, Commercial Traveller, and DANIEL JONES, of Liverpool, in the County of Lancaster, Photographic Artist, for an invention for—"An improvement or improvements in photography." *Provisional protection only.*

EARP.
5th December 1856.

2888. THOMAS EARP, of Newark, in the County of Nottingham, Gentleman, for an invention for—"An improved cutting apparatus for reaping and mowing machines." *Provisional protection only.*

GRANT.
5th December 1856.

2889. ALEXANDER GRANT, of the firm of Alexander Grant and Brothers, of Clement's Court, in the City of London, Manufacturers, for an invention for—"Improvements in shirts."—*A communication.* *Provisional protection only.*

KERDYK.
5th December 1856.

2890. LODEWYK POLAK KERDYK, of Manchester, in the County of Lancaster, Chemist, for an invention for—"Certain improvements in machinery or apparatus for extracting colouring matters to be employed for the purposes of dyeing or for other similar purposes." *Letters Patent sealed.*

CLYBURN.
5th December 1856.

2891. WILLIAM CLYBURN, of Lombard Street, in the City of London, Merchant's Clerk, for an invention for—"Improved machinery for making butter." *Provisional protection only.*

OGDEN.
HIBBERT.
5th December 1856.

2892. HETH OGDEN, of Salford, in the County of Lancaster, Engineer, and HENRY HIBBERT, of the same place, Engineer, for an invention for—"Improvements applicable to colliery and locomotive engines, for the purpose of arresting or retarding their motion at required intervals, and of indicating the amount of work done in relation to such intervals." *Letters Patent sealed.*

HOOPER.
FRY.
NASMYTH.
6th December 1856.

2893. WILLIAM HOOPER, and JOSEPH FRY, of Mitcham, in the County of Surrey, and GEORGE NASMYTH, of Bucklersbury, in the City of London, for an invention for—"Improvements in springs for railway carriages and for other purposes." *Letters Patent sealed.*

BOWERS.
6th December 1856.

2894. WILLIAM HADFIELD BOWERS, of Gorton, in the Parish of Manchester, in the County of Lancaster, Manufacturing Chemist, for an invention for—"Improvements in apparatus to be used for the purposes of distillation."—*Letters Patent sealed.*

CLARK.
6th December 1856.

2895. WILLIAM STETTINIUS CLARK, of 133, High Holborn, in the County of Middlesex, Engineer, for an invention for—"Improvements in combined caldron and furnace for agricultural and other purposes."—*A communication from Henry Newsham, of the City of Baltimore, State of Maryland, United States of America.* *Provisional protection only.*

SCHIELE. 6th December 1856.

2896. CHRISTIAN SCHIELE, of Oldham, in the County of Lancaster, Engineer, for an invention for—"Certain improvements in machinery or apparatus for cutting nuts, screws, or bolts, and toothed wheels." *Letters Patent sealed.*

PERRY. 6th December 1856.

2897. JAMES PERRY, of Ballymoney, in the County of Antrim, Ireland, Manufacturing Chemist, for an invention for—"Improvements in the treatment, application, and use of mineral tar, for the production of oleaginous and lubricating matter and fuel." *Letters Patent sealed.*

LONGBOTTOM. 6th December 1856.

2898. JOHN LONGBOTTOM, of Leeds, in the County of York, Engineer, for an invention for—"Improvements in generating, surcharging, or superheating steam." *Letters Patent sealed.*

TAYLOR. MARCUS. 6th December 1856.

2899. JOHN HORACE TAYLOR, of Bunhill Row, in the County of Middlesex, Engineer, and PHILLIP MARCUS, of Well Street, in the same County, Tailor, for an invention for—"An improvement in irons for ironing." *Provisional protection only.*

ELLISTON. 6th December 1856.

2900. HENRY TWISLETON ELLISTON, of Leamington, in the County of Warwick, Professor of Music, for an invention for—"A new or improved method of hanging and closing doors." *Provisional protection only.*

SMITH. 6th December 1856.

2901. STEPHEN RANDOLL SMITH, of Bristol, for an invention for—"Improvements in anchors." *Letters Patent sealed.*

LESLIE. 6th December 1856.

2902. JOHN LESLIE, of Conduit Street, Regent Street, in the County of Middlesex, for an invention for—"An improvement in stoves and fire-places." *Letters Patent sealed.*

LEWSEY. NASMYTH. 8th December 1856.

2903. CHARLES JOHN LEWSEY, and GEORGE NASMYTH, of Bucklersbury, in the City of London, Civil Engineers, for an invention for—"Improvements in the treatment and application of woods used in the construction of casks and such like vessels, and for other purposes." *Provisional protection only.*

COLLIER. HEYWOOD. 8th December 1856.

2904. GEORGE COLLIER, of Halifax, in the County of York, and EDWIN HEYWOOD, of Sutton Cross Hills, near Leeds, in the same County, for an invention for—"Improvements in steam-boilers or steam-generators." *Provisional protection only.*

EATON. 8th December 1856.

2905. RICHARD EATON, of 2, Sussex Terrace, New Road, Battersea, Engineer, for an invention for—"An improvement in the manufacture of springs when india-rubber is used." *Letters Patent sealed.*

ASTON. BRANT. 8th December 1856.

2906. JOHN ASTON, of Birmingham, and JOHN BRANT, of the same place, Button Makers, for an invention for—"An improvement in the manufacture of covered buttons and covered ornaments." *Letters Patent sealed.*

BERTRAM. 8th December 1856.

2907. JAMES BERTRAM, of Edinburgh, in the County of Midlothian, North Britain, Engineer, for an invention for—"Improvements in steam-engines." *Provisional protection only.*

BLAIN. 8th December 1856.

2908. JAMES BLAIN, of Belfast, in the County of Antrim, Ireland, Manufacturer, for an invention for—"Improvements in jacquard apparatus for weaving." *Letters Patent sealed.*

CARLESS. 8th December 1856.

2909. BENJAMIN CARLESS, of Birmingham, in the County of Warwick, for an invention for—"An improved bird-cage." *Provisional protection only.*

MILLER. 8th December 1856.

2910. ROBERT FREDERICK MILLER, of Hammersmith, for an invention for—"A mode of printing tables of fares, advertisements, notices, tablets, ornamental designs, figures, and other like announcements, on painted or other surfaces, to supersede writing." *Letters Patent sealed.*

BURWELL. 8th December 1856.

2911. EDWARD BURWELL, of Gainsborough, in the County of Lincoln, Coffee Merchant, for an invention for—"An improvement in roasters for coffee, cocoa, chicory, and similar substances." *Letters Patent sealed.*

HARRIS. 9th December 1856.

2912. JOSIAH HARRIS, of Frodsham, in the County of Chester, for an invention for—"A 'pneumatic signal apparatus,' and mode of working the same." *Provisional protection only.*

LILLIE. DOBSON. 9th December 1856.

2913. JOSEPH LILLIE, of the City of Manchester, Engineer, and ARTHUR DOBSON, of Belfast, in the County of Antrim, in Ireland, Bleacher and Finisher, for an invention for—"Improvements in machinery or apparatus to be used in the processes of drying animal, mineral, and vegetable substances." *Provisional protection only.*

BROWNING.
9th December 1856.

2914. JOHN BROWNING, of No. 111, Minories, in the City of London, Philosophical Instrument Maker, for an invention for—"Improvements in stereoscopes."
Letters Patent sealed; no specification filed.

VICARS.
VICARS.
ASHMORE.
SMITH.
9th December 1856.

2915. THOMAS VICARS, senior, THOMAS VICARS, junior, and THOMAS ASHMORE, all of Liverpool, in the County Palatine of Lancaster, Engineers, and JAMES SMITH, of the same place, Baker, for an invention for—"Improvements in the manufacture of biscuits, lozenges, and other like articles of confectionary." *Letters Patent sealed.*

PEAKE.
9th December 1856.

2916. THOMAS PEAKE, of Abbey Street Mill, Derby, in the County of Derby, for an invention for—"Certain improvements in the manufacture of chenille and other piled fabrics." *Letters Patent sealed.*

RAWSON.
9th December 1856.

2917. JOHN RAWSON, of Bury, in the County of Lancaster, Engraver to Calico Printers, for an invention for—"Improvements in lubricators."
Provisional protection only.

MACÉ.
9th December 1856.

2918. ANNE MARIE MACÉ, Widow of Georges Fremont, Proprietress of the Rue des Colonnes, No. 4, in the City of Paris, in the Empire of France, for an invention for—"A new manure for preventing the vine and other diseases arising from the soil, and for other similar purposes." *Letters Patent sealed.*

SCARTLIFF.
9th December 1856.

2919. JOHN ROBINSON SCARTLIFF, of Wolverhampton, in the County of Stafford, Whitesmith and Bellhanger, for an invention for—"Improvements in apparatus to be employed as an alarm and detector in cases of burglary." *Letters Patent sealed.*

WALTON.
9th December 1856.

2920. JOSEPH WALTON, of Styal, near Wilmslow, in the County of Chester, Licensed Victualler, for an invention for—"Improvements in tables."
Letters Patent sealed.

CARR.
9th December 1856.

2921. WILLIAM SEGGIE CARR, of the City and State of New York, United States of America, for an invention for—"Improvements in waterclosets."
Provisional protection only.

MUSPRATT.
GERLAND.
9th December 1856.

2922. EDMUND KNOWLES MUSPRATT, of Liverpool, and BALTHASAR WILHELM GERLAND, Ph. D., of Hesse-Cassel, now residing in Manchester, for an invention for—"Improvements in treating waste liquors produced in the manufacture of chlorine, and in separating nickel, cobalt, and copper, from liquids containing them in combination with manganese and iron." *Provisional protection only.*

MOTTET.
9th December 1856.

2923. HECTOR MOTTET, of Newlay, near Leeds, Dyer, for an invention for—"An improvement in fulling woven woollen fabrics." *Letters Patent sealed.*

WARD.
WYNAUTS.
9th December 1856.

2924. FREDERICK OLDFIELD WARD, Esquire, of Cork Street, in the County of Middlesex, in England, now staying at Brussels, in Belgium, and FREDERIC WYNAUTS, Captain of Engineers (in the service of His Majesty the King of the Belgians), of the Rue de la Paix, in the Province of Brabant, in Belgium, for an invention for—"Improvements in the manufacture of manures."—*Provisional protection only.*

THORNETT.
9th December 1856.

2925. JOHN THORNETT, junior, of the New North Road, in the County of Middlesex, Licensed Victualler, for an invention for—"Improvements in gas-burners."
Provisional protection only.

STOREY.
STOREY.
10th December 1856.

2926. WILLIAM STOREY, and THOMAS STOREY, of the Town and County of Lancaster, Manufacturers of Oil Cloth and Table Covers, for an invention for—"Improvements in forming ornamental devices on the surface of paper and certain prepared woven fabrics." *Letters Patent sealed.*

MACARTHUR.
10th December 1856.

2927. ALEXANDER MACARTHUR, of the Dalsholm Paper Works, in the County of Dumbarton, North Britain, Paper Maker, for an invention for—"Improvements in boiling, bleaching, washing, or cleansing fibrous materials." *Letters Patent sealed.*

NEWTON.
10th December 1856.

2928. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improved apparatus for supplying steam-boilers with water."—*A communication.*
Provisional protection only.

SMITH.
10th December 1856.

2929. THOMAS SMITH, of West Smithfield, in the City of London, Umbrella and Parasol Stick Manufacturer, for an invention for—"An improved joint for folding handles or sticks of umbrellas and parasols." *Provisional protection only.*

CORNES.
10th December 1856.

2930. JOHN CORNES, of Swan Lane, in the City of London, Engineer, for an invention for—"Improvements in chaff-cutting machines."
Letters Patent sealed; no specification filed.

GREEN.
11th December 1856.

2931. JACOB GREEN, of the City and County of Philadelphia, and State of Pennsylvania, United States of America, for an invention for—"Improvements in the mode of manufacturing glass lights for street vaults, ships, buildings, and friction boxes, and the apparatus for ladling or conveying the molten glass from one furnace to another."
Letters Patent sealed.

CHATWIN.
11th December 1856.

2932. JOSEPH CHATWIN, of Birmingham, in the County of Warwick, Gas Fitting and Lamp Manufacturer, for an invention for—"An expanding compensating slide for sustaining gas and other lights, also applicable for other similar purposes."
Letters Patent sealed.

VIGNAT.
11th December 1856.

2933. LOUIS VIGNAT, of the firm Vignat frères, of No. 3, Place des Victoires, in the City of Paris, Merchant, for an invention for—"A new slide beater with one or more shuttles, applicable to any loom whatever for weaving all kinds of tissue."—*Complete specification.* *Protection for 6 months only.*

BURKE.
11th December 1856.

2934. MICHAEL BURKE, of Liverpool, in the County Palatine of Lancaster, Cabinet Maker, for an invention for—"Improvements in mariners' compasses to counteract local attraction." *Provisional protection only.*

BURKE.
11th December 1856.

2935. MICHAEL BURKE, of Liverpool, in the County Palatine of Lancaster, Cabinet Maker, for an invention for—"Improvements in the construction of anchors."
Letters Patent sealed.

WHEATLEY.
WHEATLEY.
11th December 1856.

2936. THOMAS WHEATLEY, of Openshaw, near Manchester, in the County of Lancaster, Engineer, and WILLIAM WHEATLEY, of the same place, Pattern Maker, for an invention for—"Improvements in fog signals, and in the means of working the same." *Letters Patent sealed.*

REAY.
11th December 1856.

2937. WILLIAM WALKER REAY, of Birmingham, in the County of Warwick, Corn Dealer, for an invention for—"An improvement or improvements in shoes for horses and other animals." *Provisional protection only.*

DELPERDANGE.
11th December 1856.

2938. VICTOR DELPERDANGE, Engineer, of Rue Verte, No. 125, Schaerbeeck, near Brussels, in the Kingdom of Belgium, for an invention for—"Improvements in metallic and elastic packing." *Provisional protection only.*

EMERY.
11th December 1856.

2939. RICHARD EMERY, of No. 6, King Street, St. James's Square, in the City of Westminster, and County of Middlesex, Gentleman, for an invention for—"Improvements in the construction of certain kinds of agricultural implements (for breaking clogs of earth and levelling the soil) called harrows." *Letters Patent sealed.*

LUND.
11th December 1856.

2940. WILLIAM LUND, of Fleet Street, in the City of London, Manufacturer, for an invention for—"An improved 'spring clip' for holding or retaining loose papers or other loose articles." *Letters Patent sealed.*

COLLIER.
11th December 1856.

2941. GEORGE COLLIER, of Halifax, in the County of York, for an invention for—"Improvements in machinery or apparatus for the manufacture of piled fabrics."
Letters Patent sealed.

ANDERTON.
BEANLAND.
11th December 1856.

2942. FREDERICK WILLIAM ANDERTON, of Bradford, in the County of York, Worsted Spinner, and JOSEPH BEANLAND, of the same place, Engineer, for an invention for—"Improvements in apparatus or means in connection with furnaces, to facilitate the consumption of smoke." *Letters Patent sealed.*

SCHAEFFER.
11th December 1856.

2943. WILLIAM CHARLES THEODORE SCHAEFFER, of 3, Great Winchester Street, in the City of London, for an invention for—"Improvements in distilling fatty and oily matters." *Provisional protection only.*

MILES.
11th December 1856.

2944. WILLIAM PLAYER MILES, of the Patent Lock Factory, near the Forest Hill Station, London and Brighton Railway, for an invention for—"Improvements in locks and fastenings."—*A communication from Mons' Motheau, of Paris.*
Letters Patent sealed.

HUMFREY.
11th December 1856.

2945. CHARLES HUMFREY, of 14, The Terrace, Camberwell, in the County of Surrey, for an invention for—"The application and use of paraffine in the manufacture of hair oils, ointments, and plaisters for medical purposes." *Letters Patent sealed.*

KING.
11th December 1856.

2946. HENRY KING, of Frome, in the County of Somerset, for an invention for—"Improvements in machinery for thrashing and dressing wheat and other grain." *Letters Patent sealed.*

CAMBRIDGE.
11th December 1856.

2947. WILLIAM COLBORNE CAMBRIDGE, of Bristol, Agricultural Implement Maker, for an invention for—"An improved construction of portable railway." *Letters Patent sealed.*

MARGUERITTE.
11th December 1856.

2948. LOUIS JOSEPH FRÉDÉRIC MARGUERITTE, of Paris, in the Empire of France, Chemist, for an invention for—"Improvements in purifying rock and sea salt." *Letters Patent sealed.*

FONTAINEMOREAU.
12th December 1856.

2949. PETER ARMAND LE COMTE DE FONTAINEMOREAU, of 39, Rue de l'Echiquier, Paris, in the Empire of France, and 4, South Street, Finsbury, London, for an invention for—"Improved railway signal apparatus."—*A communication.* *Provisional protection only.*

WRIGHT.
WRIGHT.
12th December 1856.

2950. JOHN TURNER WRIGHT, of Birmingham, in the County of Warwick, Manufacturer, and EDWIN PAYTON WRIGHT, of Birmingham aforesaid, Manufacturer, for an invention for—"A new or improved manufacture of ropes, cords, lines, twines, and mill bandings." *Letters Patent sealed.*

GIANDONATI.
12th December 1856.

2951. RAFAELLO LOUIS GIANDONATI, of the firm of Dodge, Bacon, & Co., of St. Paul's Churchyard, in the City of London, Merchants, for an invention for—"Improvements in overshoes."—*A communication.* *Letters Patent sealed.*

PATON.
WALSH.
12th December 1856.

2952. EDWARD PATON, and CHARLES FREDERICK WALSH, of the Town and County of Perth, North Britain, Gun Makers, for an invention for—"Improvements in apparatus for charging and capping the nipples of fire-arms."—*Letters Patent sealed.*

FOSTER.
12th December 1856.

2953. WILLIAM FOSTER, of Black Dike Mills, Bradford, in the County of York, Spinner and Manufacturer, for an invention for—"Improvements in petticoats." *Provisional protection only.*

WIMBALL.
12th December 1856.

2954. HENRY WIMBALL, of Aldermaston, in the County of Berks, Brick Manufacturer, for an invention for—"Improvements in machinery or apparatus for the manufacture of bricks, tiles, pipes, and other articles of a similar nature." *Letters Patent sealed.*

CAWOOD.
BEESON.
SMITH.
HENCHLEY.
12th December 1856.

2955. JOHN CAWOOD, JAMES BEESON, WILLIAM SMITH, and RICHARD HENCHLEY, all of Derby, in the County of Derby, for an invention for—"Improvements in the valves of steam-engines." *Provisional protection only.*

HEADLEY.
12th December 1856.

2956. JAMES HARTAS HEADLEY, of the Township of Walpole, County of Haldimand, and Province of Canada, Lumber Merchant, for an invention for—"An improved mode of manufacturing artificial granite in various forms, and plating or veneering the same with marble, so as to present an exterior of marble and an interior of stone or granite." *Letters Patent sealed.*

PEASE.
RICHARDSON.
12th December 1856.

2957. HENRY PEASE, of Pierremont, near Darlington, Esquire, and THOMAS RICHARDSON, of Newcastle-on-Tyne, Chemist, for an invention for—"Improvements in the manufacture of compounds of alumina." *Letters Patent sealed.*

NEWINGTON.
12th December 1856.

2958. SAMUEL NEWINGTON, of Ticehurst, in the County of Sussex, M.D., for an invention for—"Improvements in hand hoes and cultivators." *Provisional protection only.*

BIRKBY.
12th December 1856.

2959. WILLIAM BEEVERS BIRKBY, of Upper Rawfold's Card Works, Cleckheaton, near Leeds, for an invention for—"Improvements in the manufacture of pointed wire fillets used in the preparation of flax, tow, hemp, and other fibrous substances." *Letters Patent sealed.*

SHERWIN.
12th December 1856.

2960. GEORGE SHERWIN, of 168, Waterloo Road, Burslem, in the County of Stafford, for an invention for—"Improvements in the manufacture of fire bricks, tiles, crucibles and other articles, when fire clay is used." *Letters Patent sealed.*

BOUSFIELD.
12th December 1856.

2961. GEORGE TOMLINSON BOUSFIELD, of Sussex Place, Loughborough Road, Brixton, in the County of Surrey, for an invention for—"Improvements in looms for weaving cut piled fabrics double."—*A communication from Erastus B. Bigelow, of Boston, United States of America.* *Letters Patent sealed.*

JOHNSON. 13th December 1856.

2962. CHARLES JOHNSON, of No. 59, Mansell Street, in the Parish of Saint Mary's, Whitechapel, in the County of Middlesex, Chronometer Maker, for an invention for—"The fastening of timbers for building houses, ships, or any kind of wood work, by means of split or self-clinching nails, screws, spikes, bolts or brads, and for covering the same with copper." *Provisional protection* NOT *granted.*

SMITH. 13th December 1856.

2963. JOHN SMITH, of Failsworth, near Manchester, in the County of Lancaster, Jacquard Machine Maker and Iron Founder, for an invention for—"Improvements in jacquard machines for weaving." *Letters Patent sealed.*

BRAUN. 13th December 1856.

2964. LOUIS BRAUN, of Wood Street, City, Cap Manufacturer, for an invention for—"Improvements in caps and such like articles." *Provisional protection only.*

METCALF. 13th December 1856.

2965. JOHN METCALF, of Newton Heath, near Manchester, in the County of Lancaster, Manufacturing Chemist, for an invention for—"Improvements in the manufacture of alum or sulphate of alumina." *Letters Patent sealed.*

WICKENS. 13th December 1856.

2966. HENRY WICKENS, of Tokenhouse Yard, in the City of London, Gentleman, for an invention for—"A throat guard or apparatus for protecting the throat against garotting or other external violence." *Provisional protection only.*

WADSWORTH. 13th December 1856.

2967. JAMES WADSWORTH, of Hazelgrove, near Stockport, in the County of Chester, Machine Maker, for an invention for—"Certain improvements in heating and ventilating apartments, buildings, and ships, and in apparatus applicable to and to be used for such purposes." *Provisional protection only.*

LITTLEWOOD. 13th December 1856.

2968. GEORGE LITTLEWOOD, of 93, London Wall, in the City of London, for an invention for—"Improvements in printing geometric patterns."—*Letters Patent sealed.*

TURNER. 13th December 1856.

2969. ARCHIBALD TURNER, of Leicester, Elastic Web Manufacturer, for an invention for—"Improvements in the manufacture of elastic fabrics." *Letters Patent sealed.*

GRANT. 15th December 1856.

2970. JOHN GRANT, of Hyde Park Street, in the County of Middlesex, Esquire, for an invention for—"Improvements in heating or cooking by gas, and in apparatus for effecting the same." *Provisional protection only.*

MILLNER. 15th December 1856.

2971. JOHN MILLNER, of 15, Charlwood Street, Pimlico, in the County of Middlesex, Iron Worker, for an invention for—"Improvements in chimney cans or caps." *Provisional protection only.*

JACKSON. 15th December 1856.

2972. LUKE DUNCAN JACKSON, of Underwood, in the County of Nottingham, Engineer, for an invention for—"A pneumatic break or apparatus to be attached to railway carriages or trucks for the purpose of retarding or stopping the same." *Provisional protection only.*

FOURNIER DES CORATS. 15th December 1856.

2973. AUGUSTE FOURNIER DES CORATS, of No. 8, Rue des Trois Pavillons, Paris, in the Empire of France, for an invention for—"Certain improvements in lamps." *Provisional protection only.*

NEWTON. 15th December 1856.

2974. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improvements in machinery for boring, turning, tapping, and screwing fittings for gas, water, steam, and other pipes, and in vices for holding the same while they are operated upon."—*A communication.* *Letters Patent sealed.*

AUSTIN. 16th December 1856.

2975. WILLIAM AUSTIN, of Upper Portland Place, Wandsworth Road, in the County of Surrey, Civil Engineer, for an invention for—"Improvements in pipes or tubes, and in the method of joining and laying the same." *Letters Patent sealed.*

VASSEROT. 16th December 1856.

2976. CHARLES FRÉDÉRIC VASSEROT, of the firm Wells and Vasserot, of 45, Essex Street, Strand, London, Patent Agents, Mechanical Draughtsman, &c., for an invention for—"Preserving salmon trout and other fish."—*A communication.* *Letters Patent sealed.*

HEYWOOD. 16th December 1856.

2977. EDWIN HEYWOOD, of Sutton Cross Hills, near Leeds, Designer, for an invention for—"Improvements in machinery or apparatus used in weaving." *Letters Patent sealed.*

THOMAS. 16th December 1856.

2978. WILLIAM FREDERICK THOMAS, of Newgate Street, for an invention for—"Improvements in sewing-machines." *Letters Patent sealed.*

CARWOOD.
16th December 1856.

2979. WILLIAM CARWOOD, of Back Church Lane, in the County of Middlesex, Engineer, for an invention for—"An improvement in steam-engines." *Provisional protection only.*

GERHARD.
16th December 1856.

2980. FREDERICK WILLIAM GERHARD, at the Office for Patents, 4, Trafalgar Square, in the County of Middlesex, for an invention for—"Improved means of obtaining aluminium metal, and the adaptation thereof to the manufacture of certain useful articles." *Letters Patent sealed.*

STOBO.
16th December 1856.

2981. JOHN STOBO, of Leven Bank Works, in the County of Dumbarton, North Britain, Foreman of Mechanics at Leven Bank Works, for an invention for—"Improvements in forcing or lifting corrosive or chemical liquids." *Letters Patent sealed; no specification filed.*

GOSSAGE.
16th December 1856.

2982. WILLIAM GOSSAGE, of Widnes, in the County of Lancaster, Chemist, for an invention for—"Improvements in the manufacture of sulphuric acid, and in the construction of apparatus used for such manufacture." *Provisional protection only.*

NEWTON.
16th December 1856.

2983. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"An improved process or processes of treating feldspar so that it may be used as a manure, or for obtaining potash or soda therefrom."—*A communication.* *Letters Patent sealed.*

NEWTON.
16th December 1856.

2984. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improvements in printing-presses."—*A communication.* *Letters Patent sealed.*

SMITH.
17th December 1856.

2985. JOHN SMITH, of Heywood, in the County of Lancaster, Colliery Underlooker, for an invention for—"Improvements in machinery for pumping." *Letters Patent sealed.*

FONTAINEMOREAU.
17th December 1856.

2986. PETER ARMAND LE COMTE DE FONTAINEMOREAU, of No. 4, South Street, Finsbury, London, and of 39, Rue de l'Echiquier, Paris, in the Empire of France, Patent Agent, for an invention for—"Improvements in obtaining motive-power."—*A communication.* *Provisional protection only.*

SERVOLLES.
17th December 1856.

2987. EUGÈNE SERVOLLES, of 39, Rue de l'Echiquier, Paris, in the Empire of France, and of No. 4, South Street, Finsbury, London, for an invention for—"An improved mode of advertising." *Provisional protection* NOT *granted.*

PLATT.
17th December 1856.

2988. JOHN PLATT, of Oldham, in the County of Lancaster, Mechanical Engineer, for an invention for—"Improvements in mules for spinning."—*A communication.* *Letters Patent sealed.*

NEWTON.
17th December 1856.

2989. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"An improvement in the manufacture of table knives."—*A communication.* *Letters Patent sealed.*

LEVICK.
JAMES.
17th December 1856.

2990. FREDERICK LEVICK, junior, Ironmaster, and JOHN JAMES, Furnace Manager, both of Cwm Celyn and Blaina Iron Works, in the County of Monmouth, for an invention for—"Improvements in the mode of utilizing the waste gases of blast furnaces." *Letters Patent sealed.*

THWAITES.
17th December 1856.

2991. JOHN HALL BROCK THWAITES, of Bristol, Dentist, for an invention for—"A new or improved machine or apparatus for holding postage or receipt stamps, and applicable wholly or in part to other similar purposes." *Provisional protection only.*

COWPER.
17th December 1856.

2992. CHARLES COWPER, of No. 20, Southampton Buildings, Chancery Lane, in the County of Middlesex, Patent Agent, for an invention for—"Certain improvements in electro-plating."—*A communication from Louis Isidore Caussinus, of Paris, in France.* *Provisional protection only.*

VISCOUNT CARLINGFORD.
17th December 1856.

2993. GODWIN MEADE PRATT SWIFT, VISCOUNT CARLINGFORD, of Swiftseath, County Kilkenny, for an invention for—"An aërial chariot or apparatus for navigating the air." *Letters Patent sealed.*

RENOU.
17th December 1856.

2994. VINCENT LOUIS CAZIMIR RENOU, of Jersey, for an invention for—"An improvement in the manufacture of spirit when rice is used." *Letters Patent sealed.*

HOWELL. 18th December 1856.

2995. FRANCIS BARBER HOWELL, of Lebanon, Ohio, in the United States of America, and of No. 36, High Holborn, in the County of Middlesex, Farmer, for an invention for—"Improvements in machinery for cutting or making corks."—*A communication.* *Letters Patent sealed.*

ELCE. HARTLEY. 18th December 1856.

2996. JOHN ELCE, of the City of Manchester, Machinist, and SAMUEL HARTLEY, of the same place, Brass Moulder, for an invention for—"Improvements in machinery for moulding." *Provisional protection only.*

HARTLEY. 18th December 1856.

2997. WILLIAM HARTLEY, of Bradford, in the County of York, Worsted Spinner, for an invention for—"Improvements in spinning-frames for spinning wool, hair, alpaca, cotton, silk, flax, or any other fibrous substances, on spools, paper tubes, or any kind of bobbins." *Provisional protection only.*

DRAPER. 18th December 1856.

2998. JOHN DRAPER, of Chiswell Street, Finsbury, for an invention for—"Improvements in apparatus for grating and crushing salt and sugar." *Provisional protection only.*

CLARKE. 18th December 1856.

2999. GEORGE MILLER CLARKE, of Goldington, in the County of Herts, for an invention for—"Improvements in the manufacture of moulded candles." *Letters Patent sealed.*

BOWER. 18th December 1856.

3000. JOSEPH BOWER, of Hunslet, near Leeds, Manufacturing Chemist, for an invention for—"An improvement in treating animal matters in preparing them to be used for the manufacture of manure." *Letters Patent sealed.*

WIGRAM. 18th December 1856.

3001. WILLIAM KNOX WIGRAM, of Lincoln's Inn, Barrister-at-Law, for an invention for—"An apparatus for igniting lucifer matches, or matches tipped with phosphorus or igniting composition." *Provisional protection only.*

FAY. 18th December 1856.

3002. CHARLES FAY, of Manchester, in the County of Lancaster, Railway Carriage Builder, for an invention for—"Improvements in railway carriages and breaks." *Letters Patent sealed.*

BROWN. 18th December 1856.

3003. JOHN BROWN, of Liverpool, in the County of Lancaster, Mast Maker, for an invention for—"Improvements in the construction of ships' yards." *Letters Patent sealed.*

DONNY. 18th December 1856.

3004. FRANÇOIS DONNY, Professor of Chemistry, of the City of Ghent, in the Kingdom of Belgium, for an invention for—"Improvements in the manufacture of lamps." *Letters Patent sealed.*

SIMONDS. 18th December 1856.

3005. WARREN A. SIMONDS, of Boston, in the State of Massachusetts, United States of America, for an invention for—"An improved life-preserving float." *Letters Patent sealed.*

BEAVER. 19th December 1856.

3006. LOUIS BEAVER, of the City of Manchester, Watch Maker, for an invention for—"Improvements in machinery for propelling vessels."—*Provisional protection only.*

RYE. SIMPSON. 19th December 1856.

3007. WILLIAM RYE, of Oldham, in the County of Lancaster, Engineer, and JAMES SIMPSON, of the same place, Machine Maker, for an invention for—"An improved self-acting willow for opening cotton and other fibrous materials." *Provisional protection only.*

GREG. GREG. HOPE. 19th December 1856.

3008. ROBERT HYDE GREG, and HENRY RUSSELL GREG, both of Manchester, in the County of Lancaster, Manufacturers, and JAMES HOPE, of Reddish, in the same County, Manager, for an invention for—"Certain improvements in machinery or apparatus for polishing or finishing yarns or threads." *Provisional protection only.*

MASSI. 19th December 1856.

3009. CHARLES MASSI, of 13, Greville Street, Hatton Garden, for an invention for—"Improvements in apparatus for mounting cameras."—*Provisional protection only.*

PENNY. BOOTH. 19th December 1856.

3010. JAMES PENNY, and JOHN BOOTH, both of Heckmondwike, in the County of York, Corn Millers, for an invention for—"Improved machinery for washing, cleansing, and drying grain." *Letters Patent sealed.*

MURDOCH. 19th December 1856.

3011. JOHN MURDOCH, Plumber and Brass Founder, residing in Dundee, in the County of Forfar, in Scotland, for an invention for—"An improved ship's main pump, applicable to other purposes also." *Letters Patent sealed.*

MOORHOUSE. 20th December 1856.

3012. HENRY MOORHOUSE, of Denton, near Manchester, in the County of Lancaster, Tailor, for an invention for—"Improvements in self-acting signals for railways." *Provisional protection only.*

BATCHELOR. 20th December 1856.

3013. HENRY BATCHELOR, of Newport, Monmouthshire, for an invention for—"Certain improvements in steam-boilers." *Provisional protection only.*

EDRIDGE. 20th December 1856.

3014. JOHN EDRIDGE, of Birmingham, in the County of Warwick, Pin Manufacturer, for an invention for—"Improvements in the manufacture of hair pins, shawl and other dress pins, parts of which improvements are also applicable to the manufacture of clasps and similar dress-fastenings." *Provisional protection only.*

WHITE. 20th December 1856.

3015. THOMAS WHITE, of Sleaford, in the County of Lincoln, Manufacturer, for an invention for—"A new or improved manufacture of boots, shoes, and other coverings for the feet." *Letters Patent sealed.*

HARRISSON. 20th December 1856.

3016. GEORGE ALEXANDER HARRISSON, Captain in Her Majesty's 79th Regiment Highlanders, for an invention for—"Improvements in breech-loading fire-arms." *Letters Patent sealed.*

LOOS. 20th December 1856.

3017. EDWARD LOOS, of No. 30, Leicester Square, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in the manufacture of cement, mortar, concrete, and artificial stone." *Letters Patent sealed.*

NEWBURY. 20th December 1856.

3018. THOMPSON NEWBURY, of Taunton, in the State of Massachusetts, United States of America, for an invention for—"Improved machinery for making screws." *Letters Patent sealed; no specification filed.*

WILKINSON. 20th December 1856.

3019. CHARLES CAVE WILKINSON, of 14, Hermes Street, Pentonville, Engineer, for an invention for—"An improvement in carving forks."—*Provisional protection only.*

DETHIER. 22nd December 1856.

3020. THEODORE DETHIER, of Pimlico, in the County of Middlesex, Cabinet Maker, for an invention for—"An improved knife-cleaner." *Letters Patent sealed.*

GIBSON. 22nd December 1856.

3021. ROBERT GIBSON, of Hull, Yorkshire, for an invention for—"An improved self-acting apparatus for signalling on railways." *Letters Patent sealed.*

MILL. 22nd December 1856.

3022. WILLIAM MILL, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"Improvements in joining bands, in connecting fastenings to bands, and in attaching bands to articles requiring the same."—*Letters Patent sealed.*

PAYNE. 22nd December 1856.

3023. WILLIAM JAMES PAYNE, Brass Founder, 119, Waterloo Road, Lambeth, in the County of Surrey, for an invention for—"Certain improvements in casting and finishing cocks for general purposes." *Letters Patent sealed.*

SAMPSON. 22nd December 1856.

3024. FREDERICK SAMPSON, of Gordon Street, Bradford, in the County of York, Stuff Finisher, for an invention for—"Improvements in apparatus employed in singeing fabrics." *Provisional protection only.*

LANG. 22nd December 1856.

3025. LOUIS ANTOINE LANG, Proprietor, of Rue de Chaillot, No. 64, in the City of Paris, Empire of France, for an invention for—"A new system of rotatory motion for all kind of vehicles." *Provisional protection only.*

THORNTON. 22nd December 1856.

3026. EBENEZER THORNTON, of Huddersfield, in the County of York, Ironmonger, for an invention for—"Improvements in furnaces." *Provisional protection only.*

WEST. 22nd December 1856.

3027. DANIEL WEST, of No. 17, Egremont Place, New Road, in the County of Middlesex, Civil Engineer, Esquire, for an invention for—"An improvement in presses constructed to operate by a combination of iron levers, which presses are employed to compress bales of cotton, hemp, wool, and other articles of merchandize."—*Complete specification.* *Letters Patent sealed.*

THURLOW. 22nd December 1856.

3028. THOMAS LYON THURLOW, of Baynard's Park, in the County of Surrey, Esquire, for an invention for—"Improvements in reaping-machines." *Letters Patent sealed.*

STRATTON. 22nd December 1856.

3029. WILLIAM HENRY STRATTON, of 179, Lambeth Walk, Lambeth, Tobacconist, for an invention for—"Improvements in the fire doors of furnaces." *Letters Patent sealed.*

REDGATE. ELLIS. CROPPER. 22nd December 1856.

3030. JAMES REDGATE, EDWIN ELLIS, and JOHN CROPPER, of Nottingham, for an invention for—"Improvements in bobbin net or twist lace machinery." *Letters Patent sealed.*

ROBERTS.
DALE.
PRITCHARD.
22nd December 1856.

3031. THOMAS ROBERTS, and JOHN DALE, of Manchester, in the County of Lancaster, Manufacturing Chemists, and JOHN DANIELL PRITCHARD, of Warrington, Chemist, for an invention for—"Improvements in the manufacture of oxalate of soda, which improvements are also applicable to the manufacture of oxalic acid."
Provisional protection only.

DAVIS.
22nd December 1856.

3032. GEORGE DAVIS, of Clerkenwell, in the County of Middlesex, for an invention for—"An improved name and business plate for the outsides of doors and windows." *Provisional protection only.*

STANFORD.
22nd December 1856.

3033. EDWARD STANFORD, of Charing Cross, in the City of Westminster, Stationer, for an invention for—"An improvement in the manufacture of envelopes."
Provisional protection only

JOHNSON.
22nd December 1856.

3034. WILLIAM BECKETT JOHNSON, of Altrincham, in the County of Chester, Manager for Messrs. Ormerod and Son, Engineers, Manchester, for an invention for—"Improvements in steam-engines and apparatus connected therewith."
Letters Patent sealed.

SMITH.
22nd December 1856.

3035. WILLIAM SMITH, of 10, Salisbury Street, Adelphi, Civil Engineer, for an invention for—"Certain improvements in railway rolling stock."—*A communication from J. B. Humphreys, C. E., of Rio de Janeiro.* *Letters Patent sealed.*

PRINCE.
22nd December 1856.

3036. FREDERIC PRINCE, at the Office for Patents, 4, Trafalgar Square, Charing Cross, in the County of Middlesex, for an invention for—"Improvements in fire-arms." *Letters Patent sealed.*

BAILEY.
23rd December 1856.

3037. JOSEPH SHARP BAILEY, of Keighley, in the County of York, Machine Wool Comber, for an invention for—"Improvements in machinery for combing wool and other fibrous materials." *Letters Patent sealed.*

SPENCE.
23rd December 1856.

3038. WILLIAM SPENCE, of 50, Chancery Lane, in the County of Middlesex, Patent Agent, for an invention for—"Improvements in the manufacture of felt."—*A communication from Edouard Pierre Jean Marie Albert, Rue de l'Empereur, 5, à Montmartre (Seine), in the Empire of France.* *Letters Patent sealed.*

DICK.
23rd December 1856.

3039. JAMES ROBERTSON DICK, of Alnwick, in the County of Northumberland, Mechanist, for an invention for—"Improvements in window-sashes."
Letters Patent sealed.

NEWTON.
23rd December 1856.

3040. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"An improved mode of manufacturing capsules for containing medicines."—*A communication from Mr. Jean Hegnauer, of Uster, near Zurich, Switzerland. Provisional protection only.*

NEWTON.
23rd December 1856.

3041. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Certain improvements in meters for water and other liquids."—*A communication.*
Letters Patent sealed.

ANDERSON.
23rd December 1856.

3042. JOHN ANDERSON, of Woolwich, in the County of Kent, Engineer, for an invention for—"An improved means of protecting floating batteries, ships' land batteries, martello towers, or other constructions, against shot or shell or other projectiles." *Provisional protection only.*

ECROYD.
HEYWORTH.
SCARR.
23rd December 1856.

3043. WILLIAM FARRER ECROYD, of Marsden, in the County of Lancaster, Worsted Manufacturer, JONATHAN HEYWORTH, of the same place, Manager, and GEORGE SCARR, of Burnley, in the County of Lancaster, Mechanic, for an invention for—"Improvements in looms for weaving." *Provisional protection only.*

LARK.
23rd December 1856.

3044. JAMES LARK, of 5, Bridge Foot, Vauxhall Cross, in the County of Surrey, for an invention for—"Improvements in kilns for burning materials in the manufacture of lime and cements." *Letters Patent sealed.*

BAILLY.
23rd December 1856.

3045. JULIEN LOUIS GUILLAUME BAILLY, of King Square, in the County of Middlesex, Watch and Clock Maker, for an invention for—"Improvements in winding up or maintaining the power of clocks." *Provisional protection only.*

Ross.
Vallentine.
Murray.
Don.
23rd December 1856.

3046. Alexander Ross, Blacksmith, The Burn, Parish of Fettercairn, James Vallentine, Factor on the Estate of The Burn, residing at Woodmyre Cottage, Parish of Fettercairn, Alexander Murray, Teacher of the Free Church School, Fettercairn, and Alexander Don, General Merchant, residing at Fettercairn, all in Kincardineshire, Scotland, for an invention for—"Certain improvements in the purification of coal-gas, the residium of such purifying process being applicable either as a manure, or for manufacturing gas from." *Provisional protection only.*

Dehaynin.
23rd December 1856.

3047. Felix Dehaynin, of Paris, in the Empire of France, Civil Engineer, for an invention for—"Improvements in machinery for moulding and pressing artificial fuel and plastic substances, and for driving the same from the moulds." *Provisional protection only.*

Van Abbott.
23rd December 1856.

3048. George Washington Van Abbott, of Croydon, in the County of Surrey, for an invention for—"An improvement in bank notes, which is also applicable to share certificates and other similar documents." *Provisional protection only.*

Heather.
23rd December 1856.

3049. Alfred Heather, of Portsmouth, in the County of Hants, Esquire, for an invention for—"Improvements in ferry boats." *Letters Patent sealed.*

MacNaught.
24th December 1856.

3050. William MacNaught, of Manchester, in the County of Lancaster, Engineer, for an invention for—"Certain improvements in steam-engines." *Letters Patent sealed.*

Goodfellow.
24th December 1856.

3051. Benjamin Goodfellow, of Hyde, in the County of Chester, Engineer, for an invention for—"Improvements in the construction of steam-boilers." *Letters Patent sealed.*

Macpherson.
24th December 1856.

3052. William Macpherson, of the City of Manchester, Manager, for an invention for—"Certain improvements in machinery for spinning and doubling cotton and other fibrous materials." *Letters Patent sealed.*

Nani.
24th December 1856.

3053. Guiseppe Antonio Giovanni Nani, of the Sablonière Hotel, Leicester Square, in the County of Middlesex, Gentleman, for an invention for—"Improvements in toys for the use of children." *Letters Patent sealed.*

Taylor.
24th December 1856

3054. William Taylor, of Nottingham, Manufacturing Stationer, for an invention for—"Improvements in producing various ornamental effects upon fabrics, paper, and other surfaces." *Letters Patent sealed.*

Barraclough.
24th December 1856.

3055. James Samson Barraclough, of Halifax, in the County of York, Dye-Ware Grinder, for an invention for—"Improvements in the means, machinery, or apparatus used for grinding dye-wares." *Letters Patent sealed.*

Mareschal.
24th December 1856.

3056. Jules Henri Etienne Mareschal, of Paris, France, Mechanical Engineer, for an invention for—"Improvements in hydraulic presses."—*Complete specification.* *Letters Patent sealed.*

Brooman.
24th December 1856.

3057. Richard Archibald Brooman, of 166, Fleet Street, in the City of London, Patent Agent, for an invention for—"Improvements in treating pile and cut pile fabrics, and in the manufacture of certain new pile fabrics."—*A communication from Charles Arthur Callou.* *Letters Patent sealed.*

Elliott.
24th December 1856.

3058. John Elliott, of Sunderland, in the County of Durham, Engineer, for an invention for—"Improved machinery for manufacturing rivets, bolts, spikes, and other similar articles." *Provisional protection only.*

Varley.
24th December 1856.

3059. Cromwell Fleetwood Varley, of 2, Gloucester Terrace, St. Paul's Road, Islington, in the County of Middlesex, Telegraphic Engineer, for an invention for—"Improvements in electric telegraphs." *Letters Patent sealed.*

Rostaing.
26th December 1856.

3060. Charles Sylvester Rostaing, of Dresden, in the Kingdom of Saxony, for an invention for—"Improvements in preparing and combining metallic substances for the production of colours, and in manufacturing the same."—*Complete specification.* *Letters Patent sealed.*

Hostein.
26th December 1856.

3061. Jacques Hostein, ainé, of Bordeaux, in the Empire of France, and of 32, Essex Street, Strand, London, for an invention for—"An improved mechanism for stopping railway trains."

Pr

Rowbotham. 24th December 1856.

Seys. 24th December 1856.

Rawlinson. 24th December 1856.

Isaac. 24th December 1856.

Newton. 24th December 1856.

Carter. 24th December 1856.

Clay. 26th December 1856.

M'Intyre. 26th December 1856.

Goodman. 26th December 1856.

Mitchell. 26th December 1856.

Heppell. 26th December 1856.

Deeley. 26th December 1856.

Clark. 26th December 1856.

Cox. 27th December 1856.

White. 27th December 1856.

Newton. 27th December 1856.

3069. [illegible] of Glasgow, in the County of Lanark, North Britain, Engineer, and Thomas Rowbotham, of the same place, Engineer, for an invention for—"[illegible]." *Letters Patent sealed.*

3070. [illegible] of No. 1, Rue Neuve Bourg l'Abbé, Paris, in the Empire of France, Banker, for an invention for—"[illegible]." *Letters Patent sealed.*

3071. [illegible] of the Town and County of Kingston-upon-Hull, Engineer, for an invention for—"[illegible]." *Letters Patent sealed.*

3072. [illegible] of [illegible], in the County of [illegible], Engineer, for an invention for—"[illegible]." *Letters Patent sealed.*

3073. [illegible] of No. 1, Rue Neuve Bourg l'Abbé, Paris, in the Empire of France, Banker, for an invention for—"[illegible]." *Letters Patent sealed.*

3074. [illegible] of [illegible], in the County of [illegible], Engineer, for an invention for—"[illegible]." *Letters Patent sealed.*

3075. [illegible] of [illegible], in the County of [illegible], Engineer, for an invention for—"[illegible]." *Letters Patent sealed.*

3076. [illegible] of [illegible], in the County of [illegible], Engineer, for an invention for—"[illegible]." *Letters Patent sealed.*

3077. [illegible], of the Office for Patents, 66, Chancery Lane, [illegible], Engineer, for an invention for—"[illegible]." *Provisional protection only.*

SHAW.
27th December 1856.

3078. THOMAS SHAW, of Ilkeston, in the County of Derby, Gentleman, for an invention for—"Improvements in furnaces or fireplaces." *Letters Patent sealed.*

PETRIE.
M'NAUGHT.
27th December 1856.

3079. JAMES PETRIE, and WILLIAM M'NAUGHT, of Rochdale, in the County of Lancaster, Engineers, for an invention for—"Improvements in steam-engines." *Letters Patent sealed.*

LORD.
27th December 1856.

3080. THOMAS WILKS LORD, of Leeds, in the County of York, Consulting Machinist and General Commission Agent, for an invention for—"An improved mode of drying flax, tow, hemp, silk, cotton, and other yarn, in the process of dressing, warping, sizing, beaming, and preparing yarn for weaving." *Letters Patent sealed.*

SWAIN.
27th December 1856.

3081. WILLIAM SWAIN, of Birmingham, in the County of Warwick, Engineer, for an invention for—"Improvements in heating and ventilating."—*Letters Patent sealed.*

RITCHIE.
27th December 1856.

3082. GEORGE RITCHIE, of Ponsonby Street, in the County of Middlesex, for an invention for—"Improvements in the manufacture of beds and mattresses." *Letters Patent sealed.*

WAGSTAFF.
27th December 1856.

3083. JOHN CHEESMAN WAGSTAFF, of Cannon Street, in the City of London, for an invention for—"Improvements in the manufacture of felted cloth."—*Partly a communication.* *Letters Patent sealed.*

ATKIN.
MILLER.
27th December 1856.

3084. ISAAC ATKIN, of the Town and County of the Town of Nottingham, Lace Manufacturer, and MARMADUKE MILLER, of the Town and County of the Town of Nottingham aforesaid, Steam Gauge Maker, for an invention for—"Improvements in folding lace, paper, and other fabrics." *Letters Patent sealed.*

MOREL.
27th December 1856.

3085. JOSEPH MOREL, of the Town of Gap, in the Empire of France, Mechanician, for an invention for—"Improvements in castors for fitting under the feet of tables, seats, and other similar pieces of household goods." *Letters Patent sealed.*

BOWDITCH.
29th December 1856.

3086. WILLIAM RENWICK BOWDITCH, Clerk, of Wakefield, in the County of York, for an invention for—"Improvements in the manufacture of a compound to be used as a varnish for water colours and as a carrier for water colours or paints." *Letters Patent sealed.*

VAUGHN.
29th December 1856.

3087. HORACE VAUGHN, of Providence, Rhode Island, in the United States of America, but now of the City of Manchester, Gentleman, for an invention for—"An improved method of hardening and tempering steel, and of hardening cast and wrought iron." *Letters Patent sealed.*

WELLS.
29th December 1856.

3088. JOSEPH HENRY GEORGE WELLS, of the firm Wells and Vasserot, of 45, Essex Street, Strand, London, Patent Agents, Mechanical Draughtsmen, &c., for an invention for—"Improvements in pumps and valves used therewith."—*A communication from Hippolyte François Berenguier, of Toulon, France.* *Letters Patent sealed.*

ALDEN.
29th December 1856.

3089. TIMOTHY ALDEN, of New York, in the United States of America, Mechanical Engineer, for an invention for—"Setting and distributing printing types." *Letters Patent sealed.*

SPEED.
BAILEY.
29th December 1856.

3090. JOHN JAMES SPEED (the younger), and JOHN AYLESWORTH BAILEY, of New York, United States of America, for an invention for—"Improvements in the manufacture of seamless pipes and tubes." *Letters Patent sealed.*

GILBEE.
30th December 1856.

3091. WILLIAM ARMAND GILBEE, of No. 4, South Street, Finsbury, London, and 39, Rue de l'Echiquier, Paris, in the Empire of France, Patent Agent, for an invention for—"Improvements in treating beet-root for the manufacture of vinegar."—*A communication.* *Letters Patent sealed.*

DE GRAINVILLE.
30th December 1856.

3092. JEAN LOUIS CELESTIN LE FRANÇOIS DE GRAINVILLE, of 39, Rue de l'Echiquier, Paris, and 4, South Street, Finsbury, London, Ex-Captain of the Imperial Navy, for an invention for—"Certain improvements in heating apparatus." *Letters Patent sealed.*

NEWTON.
30th December 1856.

3093. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improved means of preventing the explosion of steam-boilers."—*A communication from M. Edward Scrive, of Lille, in the Empire of France.* *Letters Patent sealed.*

BROOMAN. 30th December 1856.

3094. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent Agent, for an invention for—"Improvements in the construction of portable houses and other buildings."—*A communication from Frederick Seiler.* *Letters Patent sealed.*

BROOMAN. 30th December 1856.

3095. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent Agent, for an invention for—"Improvements in lifting-jacks."—*A communication from Mr. Michel.* *Provisional protection only.*

BROOMAN. 30th December 1856.

3096. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent Agent, for an invention for—"An improvement in sawing-machinery."—*A communication from Saint Albin Hugues.* *Provisional protection only.*

BROOMAN. 30th December 1856.

3097. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent Agent, for an invention for—"Improvements in manufacturing articles of earthenware and other ceramic materials, and in the machinery and apparatus employed therein."—*A communication from Madame Senèque.* *Letters Patent sealed.*

SHAW. 30th December 1856.

3098. GEORGE ALFRED SHAW, of 6, Dartmouth Row, Blackheath, in the County of Kent, for an invention for—"An improved machine for thrashing and cleansing corn or grain."—*A communication from Carlo Vai, of Turin.* *Provisional protection only.*

LANE. 30th December 1856.

3099. JOSEPH LANE, of Manchester, in the County of Lancaster, Merchant, for an invention for—"Certain improvements in jacquard looms."—*A communication from Chevalier Edward di San Second, of Turin.* *Provisional protection only.*

HENRY. 31st December 1856.

3100. JEAN OMER HENRY, of No. 39, Rue de l'Echiquier, Paris, in the Empire of France, and of No. 4, South Street, Finsbury, London, for an invention for—"Certain improvements in the production of embossed surfaces on wood." *Provisional protection only.*

MADDEN. 31st December 1856.

3101. PETER MADDEN, of 20, Half Moon Street, Piccadilly, London, and of Kingstown, Ireland, Architect, for an invention for—"Improvements in furnaces or fireplaces, applicable to such in use for either heating of drying kilns, roasting of substances, or heating of boilers." *Provisional protection only.*

BRAY. 31st December 1856.

3102. WILLIAM BRAY, of Folkstone, in the County of Kent, Engineer, for an invention for—"Improvements in traction engines." *Letters Patent sealed.*

WILLIAMS. 31st December 1856.

3103. CHARLES WYE WILLIAMS, of Liverpool, in the County Palatine of Lancaster, Gentleman, for an invention for—"Improvements in apparatus for mechanically charging furnaces with fuel." *Letters Patent sealed.*

TERRY. 31st December 1856.

3104. ALEXANDER ROBERT TERRY, of No. 45, Bedford Row, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in machinery for cutting sugar and other substances." *Provisional protection only.*

M'CULLOCH. KENNEDY. 31st December 1856.

3105. WILLIAM M'CULLOCH, of Kilmarnock, in the County of Ayr, North Britain, Plumber, and THOMAS KENNEDY, of the same place, Water Meter Maker, for an invention for—"Improvements in stop cocks or valves." *Provisional protection only.*

MANN. INGRAM. 31st December 1856.

3106. WILLIAM CHARLES MANN, and FREDERICK JOHN INGRAM, of East Parade, Leeds, for an invention for—"An improved mode of embossing cloth or other fabrics." *Provisional protection only.*

LONDON:
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Printers to the Queen's most Excellent Majesty.